BIOCHEMISTRY AND CELL BIOLOGY

BIOCHIMIE ET BIOLOGIE CELLULAIRE

VOLUME 64, 1986

Author Index / Index des Auteurs

Abrahamson, E.W.
Light-induced interaction between rhodopsin and GTP-binding protein leads to the hydrolysis of GTP in the rod outer segment
B.D. Gupta, T.J. Borys, S. Deshpande, R.E. Jones, and E.W. Abrahamson **304**

Adamson, S.R.
Acetylatable lipoic acid residues interact directly with lipoamide dehydrogenase in the pyruvate dehydrogenase multienzyme complex of *Escherichia coli*
S. Robert Adamson, Charles F.B. Holmes, and Kenneth J. Stevenson **250**

Agbanyo, F.R.
L-Malate transport and proton symport in vesicles prepared from *Pseudomonas putida*
F.R. Agbanyo, G. Moses, and N.F. Taylor **1190**

Ahmad, F.
Domain unfolding and the stability of thermolysin in guanidine hydrochloride
Ronald J.T. Corbett, Faizan Ahmad, and Rodney S. Roche **953**

Ahmad, S.
Ornithine transcarbamylase from *Mycobacterium smegmatis* ATCC 14468: purification, properties, and reaction mechanism
Suhail Ahmad, R.K. Bhatnagar, and T.A. Venkitasubramanian **1349**

Al-Jobore, A.
Properties of the alfalfa – *Rhizobium meliloti* symbiotic nitrogenase enzyme system *in vivo* and *in vitro*
R.W. Miller, A. Al-Jobore, and W.B. Berndt **556**

Alonso, J.M.
Carboxymethylhydroxymuconic semialdehyde dehydrogenase in the 4-hydroxyphenylacetate catabolic pathway of *Pseudomonas putida*
Josefa M. Alonso and Amando Garrido-Pertierra **1288**

Altman, E.
Structural studies of the capsular polysaccharide from *Haemophilus pleuropneumoniae* serotype 1
Eleonora Altman, Jean-Robert Brisson, and Malcolm B. Perry **707**

Structure of the O-chain of the lipopolysaccharide of *Haemophilus pleuropneumoniae* serotype 1
Eleonora Altman, Jean-Robert Brisson, and Malcolm B. Perry **1317**

Alvarado-Urbina, G.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. Alvarado-Urbina, R. Chiarello, G. Vilain, F. Jurik, L. Christensen, C. Carmona, L. Fang, and R. Crea **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. Alvarado-Urbina, R. Chiarello, G. Vilain, F. Jurik, L. Christensen, C. Carmona, L. Fang, and R. Crea **1382**

Angel, A.
Enhanced binding of low and high density lipoproteins to human adipocyte plasma membranes: effects of temperature and proteases
Bessie S. Fong, Pedro O. Rodrigues, and Aubie Angel **1378**

Anwar, R.A.
UDP-*N*-acetylmuramoyl-L-alanyl-D-glutamyl-L-lysine synthetase from *Bacillus sphaericus*: activation by potassium phosphate
Rashid A. Anwar and Mariana Vlaovic **297**

Arthur, G.
Effects of fatty acids on phosphatidylcholine biosynthesis in isolated hamster heart
Thomas Mock, Tracy L. Slater, Gilbert Arthur, Alvin C. Chan, and Patrick C. Choy **413**

Audubert, F.
Regulation of rat liver phosphatidylethanolamine *N*-methyltransferase by cytosolic factors. Examination of a role for reversible protein phosphorylation
Steven L. Pelech, Nilay Ozen, François Audubert, and Dennis E. Vance **565**

Baccari, V.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
Cristina Treves, Maria Teresa Vincenzini, Paolo Vanni, Teresa Iantomasi, Maria Stio, and Vincenzo Baccari **1310**

Baker, R.R.
A comparison of the acylation of 1-acyl-*sn*-glycero-3-phosphoinositol and 1-acyl-*sn*-glycero-3-phosphocholine in neuronal nuclei *in vitro* using radioactive arachidonate and oleate
R. Roy Baker and Huu-yi Chang **1**

The effects of pH, buffers, and fatty acid concentration on the incorporation of radioactive arachidonate into endogenous neuronal nuclear lipids
R. Roy Baker and Huu-yi Chang **962**

Barber, K.R.
Freeze-etch visualization of the outer surface of myoblasts in culture
KATHRYN R. BARBER, INGRID E. MEHLHORN, GRACE PÁRRAGA, and CHRIS W.M. GRANT **194**

Baumal, R.
Correlations between the 44D7 antigenic complex and the plasma membrane Na^+-Ca^{2+} exchanger
MICHELLE LETARTE, ELIZABETH J. QUACKENBUSH, REUBEN BAUMAL, and MAREK MICHALAK **1160**

Beattie, M.
Identification of the catalytic subunit of the ATP diphosphohydrolase by photoaffinity labeling of high-affinity ATP-binding sites of pancreatic zymogen granule membranes with 8-azido-[α-^{32}P]ATP
DENIS LEBEL and MARLYNE BEATTIE **13**

Reducing conditions induce a total degradation of the major zymogen granule membrane protein in both its membranous and its soluble form. Immunochemical quantitation of the two forms
JEAN PAQUETTE, FRANÇOIS A. LEBLOND, MARLYNE BEATTIE, and DENIS LEBEL **456**

Beed, S.
Acid and alkaline ceramidases of rat tissues
MATTHEW W. SPENCE, STEPHEN BEED, and HAROLD W. COOK **400**

Beer, C.T.
Cultured Nb rat lymphoma cells in endocrine and cancer research
PETER W. GOUT, ROBERT L. NOBLE, and CHARLES T. BEER **659**

Bégin-Heick, N.
The hysteretic effect of Gpp(NH)p on adenylate cyclase is not altered by Mg^{2+} in adipocyte membranes of ob/ob mice
NICOLE BÉGIN-HEICK **855**

Bellemare, G.
Chemical DNA sequencing in opposite direction to the dideoxy chain termination method, using a single preparation of M13 single-stranded DNA
GUY BELLEMARE, CLAUDE POTVIN, and CLAIRE SIMARD **70**

Bello, O.
Enzymatic dephosphorylation of retinyl monophosphate by rat liver
PROVIDENCIA RODRÍGUEZ and OLGA BELLO **864**

Benoiton, N.L.
A synthesis of N^{α},N^{α},N^{α}-trimethyl- L-lysine dioxalate in gram amounts
FRANCIS M.F. CHEN and N. LEO BENOITON **182**

Berndt, W.B.
Properties of the alfalfa – *Rhizobium meliloti* symbiotic nitrogenase enzyme system *in vivo* and *in vitro*
R.W. MILLER, A. AL-JOBORE, and W.B. BERNDT **556**

Bernier, F.
Changes in gene expression during spherulation in *Physarum polycephalum*
FRANÇOIS BERNIER, VERN L. SELIGY, DOMINICK PALLOTTA, and GÉRALD LEMIEUX **337**

Berry, L.R.
Erratum: On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
LESLIE R. BERRY, FRANK V. PUZZUOLI, and MARK W.C. HATTON **77**

A comparison of two procedures used for complexing Fe(III) with human apotransferrin: I. physicochemical properties of the Fe(III)·transferrin products
LESLIE R. BERRY and MARK W.C. HATTON **936**

Bhatnagar, R.K.
Ornithine transcarbamylase from *Mycobacterium smegmatis* ATCC 14468: purification, properties, and reaction mechanism
SUHAIL AHMAD, R.K. BHATNAGAR, and T.A. VENKITASUBRAMANIAN **1349**

Bhavnani, B.R.
Regulation of rabbit fetal glycogen: effect of *in utero* fetal decapitation on the metabolism of glycogen in fetal heart, lung, and liver
BHAGU R. BHAVNANI, C. ALLAN WOOLEVER, and CHEE CHUNG PAN **405**

Bietlot, H.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. KAPLAN, G. ODA, H. BIETLOT, P. CAREY, M. POZSGAY, and P. FAST **1226**

Bigelow, C.C.
The quantitative comparison of the effects of denaturants on the stability of proteins
JAMES A. THOMSON and CHARLES C. BIGELOW **993**

Bird, R.C.
Stability of histone mRNAs is related to their location in polysomes
R. CURTIS BIRD, FREDERIK A. JACOBS, and BRUCE H. SELLS **99**

Boers, W.
Activity and secretion of sialyltransferase in primary monolayer cultures of rat hepatocytes cultured with and without dexamethasone
WILLEM VAN DIJK, WILLEM BOERS, MIEKE SALA, ANNE-MARIE LASTHUIS, and SAILEN MOOKERJEA **79**

Boggs, J.M.
Effect of lipid structural modifications on their intermolecular hydrogen bonding interactions and membrane functions
JOAN M. BOGGS **50**

Bols, N.C.
Monoclonal antibodies to cuticular proteins of *Panagrellus silusiae*: identification of a common collagenous epitope
L.H. MARTIN, N.C. BOLS, and J.J. PASTERNAK **743**

Bordeleau, L.
The activity of human kidney arylsulfatases A and B towards catecholamine sulfates
S. DEMASSIEUX, Y. ROMAIN, L. BORDELEAU, D. GRAVEL, and S. CARRIÈRE **1044**

Borys, T.J.
Light-induced interaction between rhodopsin and GTP-binding protein leads to the hydrolysis of GTP in the rod outer segment
B.D. GUPTA, T.J. BORYS, S. DESHPANDE, R.E. JONES, and E.W. ABRAHAMSON **304**

Boulanger, Y.
Use of dialysis fibers for the study of aerobic cells
YVAN BOULANGER and PATRICK VINAY **869**

Boulikas, T.
Nucleosomes are assembled into discrete size structures by histone H1 *in vitro*
TENI BOULIKAS 463

Protein–protein and protein–DNA interactions in calf thymus nuclear matrix using cross-linking by ultraviolet irradiation
TENI BOULIKAS 474

Bourbonnais, Y.
Posttranslational modifications of proopiomelanocortin in rat intermediate lobe cells
YVES BOURBONNAIS, SUZANNE FORTIN, and PHILIPPE CRINE 1262

Bragg, P.D.
Electrophoretic determination of sulfhydryl groups and its application to complex protein samples, *in vitro* protein synthesis mixtures, and cross-linked proteins
HELGA STAN-LOTTER and PHILIP D. BRAGG 154

Subunit interactions in the F_1 adenosine triphosphatase from the thermophilic bacterium PS3 determined by chemical cross-linking
NOBUHITO SONE, CYNTHIA HOU, and PHILIP D. BRAGG 229

Breckenridge, W.C.
Isolation and partial characterization of apolipoprotein (a) from human lipoprotein (a)
L.J. SEMAN and W.C. BRECKENRIDGE 999

Brewer, J.M.
Yeast enolase carboxyl modification using Woodward's reagent K
UMA SINHA and JOHN M. BREWER 970

Brisson, J.-R.
Structural studies of the capsular polysaccharide from *Haemophilus pleuropneumoniae* serotype 1
ELEONORA ALTMAN, JEAN-ROBERT BRISSON, and MALCOLM B. PERRY 707

Structure of the O-chain of the lipopolysaccharide of *Haemophilus pleuropneumoniae* serotype 1
ELEONORA ALTMAN, JEAN-ROBERT BRISSON, and MALCOLM B. PERRY 1317

Britt, B.A.
Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT, DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG 1181

Burres, N.S.
The effects of hypoxanthine on methotrexate-induced differentiation of cultured human choriocarcinoma (BeWo) cells
NEAL S. BURRES and CAROL E. CASS 811

Cameron, L.A.
A simple immunological detection method for the direct screening of genes from clone banks
REGGIE Y.C. LO and LYNNE A. CAMERON 73

Cammack, R.
Electron paramagnetic resonance studies of heme *c* and its nitrosyl derivative in *Vibrio (Achromobacter) fischeri* nitrite reductase
JAI C. SADANA, BASHIR M. KHAN, IAN V. FRY, and RICHARD CAMMACK 394

Carbajal, M.E.
Cellular localization of *Drosophila* 83-kilodalton heat shock protein in normal, heat-shocked, and recovering cultured cells with a specific antibody
M.E. CARBAJAL, J.-L. DUBAND, F. LETTRE, J.-P. VALET, and R.M. TANGUAY 816

Carey, P.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. KAPLAN, G. ODA, H. BIETLOT, P. CAREY, M. POZSGAY, and P. FAST 1226

Carmona, C.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA 548

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA 1382

Carne, T.J.
Synthetic peptides as substrates for processing enzymes in the bovine pituitary
K.K. LEE, AOIFE M. CONWAY, and THOMAS J. CARNE 1356

Carrière, S.
The activity of human kidney arylsulfatases A and B towards catecholamine sulfates
S. DEMASSIEUX, Y. ROMAIN, L. BORDELEAU, D. GRAVEL, and S. CARRIÈRE 1044

Carroll, K.K.
Long-term distribution and metabolism of [1-^{14}C]dolichol injected intravenously into rats
JACK W. RIP and KENNETH K. CARROLL 886

Cass, C.E.
The effects of hypoxanthine on methotrexate-induced differentiation of cultured human choriocarcinoma (BeWo) cells
NEAL S. BURRES and CAROL E. CASS 811

Chakravarti, R.N.
Spontaneous cholesterol movement between lipid vesicles and monkey small intestinal brush border membrane
TARUN SADANA, SANKAR N. SANYAL, SIDDARTHA MAJUMDAR, KAMLA DHALL, and RABINDRA NATH CHAKRAVARTI 575

Chamberland, S.
Characterization of lithium-induced enzyme release from human polymorphonuclear leukocytes
DAVID A. HART, YOLANDA GROENEWOUD, and SUZANNE CHAMBERLAND 980

Chan, A.C.
Effects of fatty acids on phosphatidylcholine biosynthesis in isolated hamster heart
THOMAS MOCK, TRACY L. SLATER, GILBERT ARTHUR, ALVIN C. CHAN, and PATRICK C. CHOY 413

Chan, P.
Secretion of triglyceride lipase from rat hepatocytes in culture: modulation by insulin and phenobarbital
JOEL G. PARKES, PETER CHAN, and DAVID M. GOLDBERG **1147**

Chang, H.-y.
A comparison of the acylation of 1-acyl-*sn*-glycero-3-phosphoinositol and 1-acyl-*sn*-glycero-3-phosphocholine in neuronal nuclei *in vitro* using radioactive arachidonate and oleate
R. ROY BAKER and HUU-YI CHANG **1**

The effects of pH, buffers, and fatty acid concentration on the incorporation of radioactive arachidonate into endogenous neuronal nuclear lipids
R. ROY BAKER and HUU-YI CHANG **962**

Chau, H.S.
Activation of phosphoenolpyruvate carboxykinase isolated from *Veillonella parvula*
HELEN S. CHAU and STEPHEN K. NG **898**

Chen, F.M.F.
A synthesis of N^{α},N^{α},N^{ε}-trimethyl- L-lysine dioxalate in gram amounts
FRANCIS M.F. CHEN and N. LEO BENOITON **182**

Cherian, M.G.
Influence of maternal mineral deficiency on the hepatic metallothionein and zinc in newborn rats
KAREN R. GALLANT and M. GEORGE CHERIAN **8**

Chevalier, A.
Effect of glutaraldehyde on hemoglobin: functional aspects and Mössbauer parameters
DIDIER GUILLOCHON, MOKAMBES WARAN VIJAYALAKSHMI, ATSU THIAM-SOW, DANIEL THOMAS, and ALAIN CHEVALIER **29**

Chiarello, R.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **1382**

Child, P.
Investigation of the role of micellar phospholipid in the preferential uptake of cholesterol over sitosterol by dispersed rat jejunal villus cells
P. CHILD and A. KUKSIS **847**

Chow, T.Y.-K.
An immunochemical study of *Neurospora* nucleases
MURRAY J. FRASER, TERRY Y.-K. CHOW, HELGA COHEN, and HELENA KOA **106**

Choy, P.C.
Effects of fatty acids on phosphatidylcholine biosynthesis in isolated hamster heart
THOMAS MOCK, TRACY L. SLATER, GILBERT ARTHUR, ALVIN C. CHAN, and PATRICK C. CHOY **413**

Christensen, L.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **1382**

Chudzik, J.
Participation of the microsomal CDP-diglycerides in the mitochondrial biosynthesis of phosphatidylglycerol
LIDIJA STUHNE-SEKALEC, JERZY CHUDZIK, and NIKOLA Z. STANACEV **309**

Clark, A.F.
Androgen metabolism and actions in rat ventral prostate epithelial and stromal cell cultures
J. ORLOWSKI and A.F. CLARK **583**

Clark, J.
Heating RNA before cell-free translation gives no selective increases among the translation products of RNA from rat heart and mammary gland, rabbit reticulocyte membranes, or trout liver
VASEK A. MEZL, JANE CLARK, and PASCALE M. GARBER **504**

Cohen, A.
Chemical and genetic comparison of the glucose and nucleoside transporters
AMIRA KLIP, DENISE WALKER, AMOS COHEN, and CHUNGYEE LEUNG **1170**

Cohen, H.
An immunochemical study of *Neurospora* nucleases
MURRAY J. FRASER, TERRY Y.-K. CHOW, HELGA COHEN, and HELENA KOA **106**

Conway, A.M.
Synthetic peptides as substrates for processing enzymes in the bovine pituitary
K.K. LEE, AOIFE M. CONWAY, and THOMAS J. CARNE **1356**

Cook, H.W.
Acid and alkaline ceramidases of rat tissues
MATTHEW W. SPENCE, STEPHEN BEED, and HAROLD W. COOK **400**

Corbett, R.J.T.
Domain unfolding and the stability of thermolysin in guanidine hydrochloride
RONALD J.T. CORBETT, FAIZAN AHMAD, and RODNEY S. ROCHE **953**

Cornell, R.
The supply of both CDP-choline and diacylglycerol can regulate the rate of phosphatidylcholine synthesis in HeLa cells
PETER LIM, ROSEMARY CORNELL, and DENNIS E. VANCE **692**

Coukell, M.B.
Relationship of the cGMP-binding activity to the cGMP-specific phosphodiesterase in *Dictyostelium discoideum*
A.M. PARISSENTI and M.B. COUKELL **528**

Chemotaxis-associated properties of separated prestalk and prespore cells of *Dictyostelium discoideum*
J.D. Mee, D.M. Tortolo, and M.B. Coukell 722

Crea, R.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. Alvarado-Urbina, R. Chiarello, G. Vilain, F. Jurik, L. Christensen, C. Carmona, L. Fang, and R. Crea 548

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. Alvarado-Urbina, R. Chiarello, G. Vilain, F. Jurik, L. Christensen, C. Carmona, L. Fang, and R. Crea 1382

Crine, P.
Posttranslational modifications of proopiomelanocortin in rat intermediate lobe cells
Yves Bourbonnais, Suzanne Fortin, and Philippe Crine 1262

Croxatto, H.B.
Two satisfactory methods for purification of human acrosin
Lisette Leyton, Alfredo de Ioannes, Horacio B. Croxatto, Elise J. Graham, and John S. Elce 1020

Monoclonal antibodies to bovine and human acrosin
John S. Elce, Elise J. Graham, Gizela Zboril, Lisette Leyton, Elcira Perez, Horatio B. Croxatto, and Alfredo de Ioannes 1242

Cummings, M.D.
Photoinactivation of acetylcholinesterase by erythrosin B and related compounds
George Tomlinson, Maxwell D. Cummings, and Larry Hryshko 515

Cunha, G.R.
Stromal–epithelial interactions and heterogeneity of proliferative activity within the prostate
Gerald R. Cunha, Annemarie A. Donjacour, and Yoshiki Sugimura 608

Currie, R.W.
Synthesis of stress-induced protein in isolated and perfused rat hearts
R. William Currie 418

D'Agostino, S.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
Byron G. Lane, Zbyszko F. Grzelczak, Theresa D. Kennedy, Robert Kajioka, Jeanne Orr, Sandra D'Agostino, and Anna Jaikaran 1025

D'Amore, T.
Approaches used to examine the mechanism and regulation of hexose transport in rat myoblasts
Tony D'Amore and Theodore C.Y. Lo 1081

Day, A.G.
The purification and characterization of a β-glucosidase from *Alcaligenes faecalis*
Anthony G. Day and Stephen G. Withers 914

de Ioannes, A.
Two satisfactory methods for purification of human acrosin
Lisette Leyton, Alfredo de Ioannes, Horacio B. Croxatto, Elise J. Graham, and John S. Elce 1020

Monoclonal antibodies to bovine and human acrosin
John S. Elce, Elise J. Graham, Gizela Zboril, Lisette Leyton, Elcira Perez, Horatio B. Croxatto, and Alfredo de Ioannes 1242

Demassieux, S.
The activity of human kidney arylsulfatases A and B towards catecholamine sulfates
S. Demassieux, Y. Romain, L. Bordeleau, D. Gravel, and S. Carrière 1044

de Murcia, G.
Poly(ADP-ribose) accessibility to poly(ADP-ribose) glycohydrolase activity on poly(ADP-ribosyl)ated nucleosomal proteins
A. Gaudreau, L. Ménard, G. de Murcia, and G.G. Poirier 146

Desautels, M.
Selective loss of uncoupling protein from mitochondria of surgically denervated brown adipose tissue of cold-acclimated mice
M. Desautels, R.A. Dulos, and B. Mozaffari 1125

Deshpande, S.
Light-induced interaction between rhodopsin and GTP-binding protein leads to the hydrolysis of GTP in the rod outer segment
B.D. Gupta, T.J. Borys, S. Deshpande, R.E. Jones, and E.W. Abrahamson 304

Desrosiers, R.
Further characterization of the posttranslational modifications of core histones in response to heat and arsenite stress in *Drosophila*
Richard Desrosiers and Robert M. Tanguay 750

Devés, R.
Looking for probes of gated channels: studies of the inhibition of glucose and choline transport in erythrocytes
R.M. Krupka and R. Devés 1099

Dewar, C.L.
Cytolocalization artifacts with immunofluorescent probes
Susan J. Friedman, Catharine L. Dewar, and Philip Skehan 1326

Dhall, K.
Spontaneous cholesterol movement between lipid vesicles and monkey small intestinal brush border membrane
Tarun Sadana, Sankar N. Sanyal, Siddartha Majumdar, Kamla Dhall, and Rabindra Nath Chakravarti 575

Dinda, M.
Effect of saturated phosphatidylcholines on the functional properties of reconstituted cytochrome oxidase
Michael A. Singer, Maria Dinda, Marlene Young, and Leonard Finegold 91

Dodd, J.G.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. Matusik, C. Kreis, P. McNicol, R. Sweetland, C. Mullin, W.H. Fleming, and J.G. Dodd 601

Doig, M.T.
Effects of growth rate and methotrexate on folate polyglutamates and folylpolyglutamate hydrolase activity in Krebs ascites cells
PRATIMA SUR, DAVID G. PRIEST, and MARION T. DOIG **363**

Domenicucci, C.
Osteonectin is a minor component of mineralized connective tissues in rat
PAUL ZUNG, CARMELO DOMENICUCCI, SAFIA WASI, FUMIYUKI KUWATA, and JARO SODEK **356**

Donjacour, A.A.
Stromal–epithelial interactions and heterogeneity of proliferative activity within the prostate
GERALD R. CUNHA, ANNEMARIE A. DONJACOUR, and YOSHIKI SUGIMURA **608**

Doughty, M.J.
Chloride-insensitive, glycine–phenylalanine–naphthylamide hydrolysis at neutral pH in human skin fibroblasts
MICHAEL J. DOUGHTY and ERIC I. GRUENSTEIN **772**

Dove, M.J.
DNA components of *Tipula* iridescent virus
S. TAJBAKHSH, M.J. DOVE, P.E. LEE, and V.L. SELIGY **495**

Dratewka-Kos, E.
Unsaturated fatty acids inhibit ADP-arachidonate-induced platelet aggregation without affecting thromboxane synthesis
ELLA DRATEWKA-KOS, D.O. TINKER, and BRIGITTE KINDL **906**

Dryden, E.E.
The inactivation by concanavalin A of the ecto-ATPase and ecto-acetylcholinesterase of intact skeletal muscles
J.S. STILL, J.F. MANERY, and E.E. DRYDEN **1272**

Duband, J.-L.
Cellular localization of *Drosophila* 83-kilodalton heat shock protein in normal, heat-shocked, and recovering cultured cells with a specific antibody
M.E. CARBAJAL, J.-L. DUBAND, F. LETTRE, J.-P. VALET, and R.M. TANGUAY **816**

Dufresne, M.J.
Evidence for a defective thiol protease inhibitor in skeletal muscle of mice with hereditary muscular dystrophy
P. GOPALAN, M.J. DUFRESNE, and A.H. WARNER **1010**

Dulos, R.A.
Selective loss of uncoupling protein from mitochondria of surgically denervated brown adipose tissue of cold-acclimated mice
M. DESAUTELS, R.A. DULOS, and B. MOZAFFARI **1125**

Dunford, H.B.
Kinetics of the oxidation of reduced nicotinamide adenine dinucleotide by horseradish peroxidase compounds I and II
MOHAMMED A. KASHEM and H. BRIAN DUNFORD **323**

Durante, B.
Digitalis-like biological activity in rat cerebellum
STEVEN P. LINTLOP, BILL DURANTE, FRED A. SUNAHARA, and AMAR K. SEN **1049**

Dussault, J.H.
Production of an antibody against rat liver nuclear T_3 receptor
ROBERT FAURE, JEAN RUEL, and JEAN H. DUSSAULT **377**

Edgell, C.-J.S.
Isolation of a human von Willebrand factor cDNA from the hybrid endothelial cell line EA.hy926
BERNARD A. VAN OOST, CORA-JEAN S. EDGELL, COLIN W. HAY, and ROSS T.A. MACGILLIVRAY **699**

Edwards, L.A.
A detailed examination of the iodination of β-galactosidase: stoichiometric inactivation by nonspecific iodination
L.A. EDWARDS and R.E. HUBER **523**

Elce, J.S.
Two satisfactory methods for purification of human acrosin
LISETTE LEYTON, ALFREDO DE IOANNES, HORACIO B. CROXATTO, ELISE J. GRAHAM, and JOHN S. ELCE **1020**

Monoclonal antibodies to bovine and human acrosin
JOHN S. ELCE, ELISE J. GRAHAM, GIZELA ZBORIL, LISETTE LEYTON, ELCIRA PEREZ, HORATIO B. CROXATTO, and ALFREDO DE IOANNES **1242**

Elliott, M.E.
Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT, DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG **1181**

Elsholtz, H.P.
Role of ornithine decarboxylase in proliferation of prolactin-dependent lymphoma cells
HARRY P. ELSHOLTZ, ROBERT P.C. SHIU, and HENRY G. FRIESEN **381**

England, D.
The effect of nerve growth factor on the development of sodium channels in PC12 cells
JUTA K. REED and DIANE ENGLAND **1153**

Engler, R.
Inhibition of the cathepsin B like proteinase by a low molecular weight cysteine-proteinase inhibitor from ascitic fluid and plasma α_2 macroglobulin
MAURICE PAGANO, DANIEL KEPPLER, VERONIQUE FUMERON-DALET, and ROBERT ENGLER **1218**

Falkenberg, P.
The primary structure of the ribosomal A-protein (L12) from the moderate halophile NRCC 41227
PAUL FALKENBERG, MAKOTO YAGUCHI, CAMILLE ROY, MICHAEL ZUKER, and ALASTAIR T. MATHESON **675**

Fang, L.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **1382**

Fantin, D.J.
Role of phospholipid fatty acids on the kinetics of high and low affinity sites of cytochrome *c* oxidase
A. Trivedi, D.J. Fantin, and E. Reno Tustanoff **1195**

Fast, P.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. Kaplan, G. Oda, H. Bietlot, P. Carey, M. Pozsgay, and P. Fast **1226**

Faulstich, H.
A soluble biotinyl-α-amanitin affinity probe for the isolation of RNA polymerase B
A.C. Vaisius and H. Faulstich **923**

Faure, R.
Production of an antibody against rat liver nuclear T_3 receptor
Robert Faure, Jean Ruel, and Jean H. Dussault **377**

Feltham, L.A.W.
Gastric proteases of the Greenland cod *Gadus ogac*. I. Isolation and kinetic properties
E. James Squires, N.F. Haard, and L.A.W. Feltham **205**

Gastric proteases of the Greenland cod *Gadus ogac*. II. Structural properties
E. James Squires, N.F. Haard, and L.A.W. Feltham **215**

Finegold, L.
Effect of saturated phosphatidylcholines on the functional properties of reconstituted cytochrome oxidase
Michael A. Singer, Maria Dinda, Marlene Young, and Leonard Finegold **91**

Fleming, W.H.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. Matusik, C. Kreis, P. McNicol, R. Sweetland, C. Mullin, W.H. Fleming, and J.G. Dodd **601**

Fong, B.S.
Enhanced binding of low and high density lipoproteins to human adipocyte plasma membranes: effects of temperature and proteases
Bessie S. Fong, Pedro O. Rodrigues, and Aubie Angel **1378**

Forstner, G.
Hydrophobic binding domains of rat intestinal maltase–glucoamylase
L. Lee and G. Forstner **782**

Forstner, J.F.
The effects of delipidation on the major antigenic determinant of purified human intestinal mucin
M. Mantle and J.F. Forstner **223**

Fortin, S.
Posttranslational modifications of proopiomelanocortin in rat intermediate lobe cells
Yves Bourbonnais, Suzanne Fortin, and Philippe Crine **1262**

Fraser, M.J.
An immunochemical study of *Neurospora* nucleases
Murray J. Fraser, Terry Y.-K. Chow, Helga Cohen, and Helena Koa **106**

Freeman, K.B.
Experimental approaches to the study of the biogenesis of mammalian mitochondrial proteins
Karl B. Freeman, Randall W. Yatscoff, and Robert G. Ridley **1108**

Friedman, S.J.
Cytolocalization artifacts with immunofluorescent probes
Susan J. Friedman, Catharine L. Dewar, and Philip Skehan **1326**

Friesen, H.G.
Role of ornithine decarboxylase in proliferation of prolactin-dependent lymphoma cells
Harry P. Elsholtz, Robert P.C. Shiu, and Henry G. Friesen **381**

Fry, I.V.
Electron paramagnetic resonance studies of heme *c* and its nitrosyl derivative in *Vibrio (Achromobacter) fischeri* nitrite reductase
Jai C. Sadana, Bashir M. Khan, Ian V. Fry, and Richard Cammack **394**

Fujii, M.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
Toshihiro Fujii, Tatsuo Suzuki, Michiyo Fujii, Akira Hachimori, Yoshiyuki Kondo, and Kosuke Ohki **615**

Fujii, T.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
Toshihiro Fujii, Tatsuo Suzuki, Michiyo Fujii, Akira Hachimori, Yoshiyuki Kondo, and Kosuke Ohki **615**

Fumeron-Dalet, V.
Inhibition of the cathepsin B like proteinase by a low molecular weight cysteine-proteinase inhibitor from ascitic fluid and plasma α_2 macroglobulin
Maurice Pagano, Daniel Keppler, Veronique Fumeron-Dalet, and Robert Engler **1218**

Gallant, K.R.
Influence of maternal mineral deficiency on the hepatic metallothionein and zinc in newborn rats
Karen R. Gallant and M. George Cherian **8**

Garber, P.M.
Heating RNA before cell-free translation gives no selective increases among the translation products of RNA from rat heart and mammary gland, rabbit reticulocyte membranes, or trout liver
Vasek A. Mezl, Jane Clark, and Pascale M. Garber **504**

Garrido-Pertierra, A.
Carboxymethylhydroxymuconic semialdehyde dehydrogenase in the 4-hydroxyphenylacetate catabolic pathway of *Pseudomonas putida*
Josefa M. Alonso and Amando Garrido-Pertierra **1288**

Gaudreau, A.
Poly(ADP-ribose) accessibility to poly(ADP-ribose) glycohydrolase activity on poly(ADP-ribosyl)ated nucleosomal proteins
A. Gaudreau, L. Ménard, G. de Murcia, and G.G. Poirier **146**

Germain, L.
Cell of origin of distinct cultured rat liver epithelial cells, as typed by cytokeratin and surface component selective expression
NORMAND MARCEAU, LUCIE GERMAIN, RENÉ GOYETTE, MICHELINE NOËL, and HENRIETTE GOURDEAU **788**

Girgis, G.R.
Erratum: Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI, GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **161**

Glick, B.R.
Partial purification and characterization of phosphoenolpyruvate carboxylase from the cyanobacterium *Anabaena variabilis*
NORA W. LEM, DONNA M. PENROSE, and BERNARD R. GLICK **427**

Production of antibodies against sorghum leaf phosphoenolpyruvate carboxylase monomer and their use in monitoring phosphoenolpyruvate carboxylase levels in sorghum tissues
DONNA M. PENROSE and BERNARD R. GLICK **1234**

Goldberg, D.M.
Modulation by phenobarbital of the differentiation of 3T3 preadipocytes
JOEL G. PARKES, ROSHAN A. HUSSAIN, and DAVID M. GOLDBERG **1141**

Secretion of triglyceride lipase from rat hepatocytes in culture: modulation by insulin and phenobarbital
JOEL G. PARKES, PETER CHAN, and DAVID M. GOLDBERG **1147**

Golsteyn, E.J.
Interaction of steroids with the nuclear envelope
Y.A. LEFEBVRE, J.T. VENKATRAMAN, E.J. GOLSTEYN, and G.M. HOWELL **594**

Gonzalez, J.E.
The anthranilate aggregate of *Escherichia coli*: kinetics of inhibition by tryptophan of phosphoribosyltransferase
JOSE E. GONZALEZ and RONALD L. SOMERVILLE **681**

Goodyer, P.R.
Analysis of the Heymann nephritogenic glycoprotein in rat, mouse, and human kidney
P.R. GOODYER, M. MILLS, and B.S. KAPLAN **441**

Gopalan, P.
Evidence for a defective thiol protease inhibitor in skeletal muscle of mice with hereditary muscular dystrophy
P. GOPALAN, M.J. DUFRESNE, and A.H. WARNER **1010**

Gourdeau, H.
Cell of origin of distinct cultured rat liver epithelial cells, as typed by cytokeratin and surface component selective expression
NORMAND MARCEAU, LUCIE GERMAIN, RENÉ GOYETTE, MICHELINE NOËL, and HENRIETTE GOURDEAU **788**

Gout, P.W.
Cultured Nb rat lymphoma cells in endocrine and cancer research
PETER W. GOUT, ROBERT L. NOBLE, and CHARLES T. BEER **659**

Goyette, R.
Cell of origin of distinct cultured rat liver epithelial cells, as typed by cytokeratin and surface component selective expression
NORMAND MARCEAU, LUCIE GERMAIN, RENÉ GOYETTE, MICHELINE NOËL, and HENRIETTE GOURDEAU **788**

Graham, E.J.
Two satisfactory methods for purification of human acrosin
LISETTE LEYTON, ALFREDO DE IOANNES, HORACIO B. CROXATTO, ELISE J. GRAHAM, and JOHN S. ELCE **1020**

Monoclonal antibodies to bovine and human acrosin
JOHN S. ELCE, ELISE J. GRAHAM, GIZELA ZBORIL, LISETTE LEYTON, ELCIRA PEREZ, HORATIO B. CROXATTO, and ALFREDO DE IOANNES **1242**

Grant, C.W.M.
Freeze-etch visualization of the outer surface of myoblasts in culture
KATHRYN R. BARBER, INGRID E. MEHLHORN, GRACE PÁRRAGA, and CHRIS W.M. GRANT **194**

Gravel, D.
The activity of human kidney arylsulfatases A and B towards catecholamine sulfates
S. DEMASSIEUX, Y. ROMAIN, L. BORDELEAU, D. GRAVEL, and S. CARRIÈRE **1044**

Greenspan, D.S.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Greer, P.A.
Cloning and *in vitro* expression of the measles virus matrix gene
PETER A. GREER, KARL W. HASEL, and STEWART MILLWARD **1038**

Griffith, D.W.
Structure of the O-chain polysaccharide of the phenol-phase soluble lipopolysaccharide of *Escherichia coli* O:157:H7
MALCOLM B. PERRY, LEANN MACLEAN, and DOUGLAS W. GRIFFITH **21**

Grisé-Miron, L.
Identification of a 51-kilodalton polypeptide fatty acyl chain acceptor in soluble extracts from mouse cardiac tissue
DENISE GUERTIN, LUCIE GRISÉ-MIRON, and DENIS RIENDEAU **1249**

Groenewoud, Y.
Characterization of lithium-induced enzyme release from human polymorphonuclear leukocytes
DAVID A. HART, YOLANDA GROENEWOUD, and SUZANNE CHAMBERLAND **880**

Gruenstein, E.I.
Chloride-insensitive, glycine–phenylalanine–naphthylamide hydrolysis at neutral pH in human skin fibroblasts
MICHAEL J. DOUGHTY and ERIC I. GRUENSTEIN **772**

Grzelczak, Z.F.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Guertin, D.
Identification of a 51-kilodalton polypeptide fatty acyl chain acceptor in soluble extracts from mouse cardiac tissue
DENISE GUERTIN, LUCIE GRISÉ-MIRON, and DENIS RIENDEAU **1249**

Guillochon, D.
Effect of glutaraldehyde on hemoglobin: functional aspects and Mössbauer parameters
DIDIER GUILLOCHON, MOKAMBES WARAN VIJAYALAKSHMI, ATSU THIAM-SOW, DANIEL THOMAS, and ALAIN CHEVALIER **29**

Gupta, B.D.
Light-induced interaction between rhodopsin and GTP-binding protein leads to the hydrolysis of GTP in the rod outer segment
B.D. GUPTA, T.J. BORYS, S. DESHPANDE, R.E. JONES, and E.W. ABRAHAMSON **304**

Haard, N.F.
Gastric proteases of the Greenland cod *Gadus ogac*. I. Isolation and kinetic properties
E. JAMES SQUIRES, N.F. HAARD, and L.A.W. FELTHAM **205**

Gastric proteases of the Greenland cod *Gadus ogac*. II. Structural properties
E. JAMES SQUIRES, N.F. HAARD, and L.A.W. FELTHAM **215**

Hachimori, A.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
TOSHIHIRO FUJII, TATSUO SUZUKI, MICHIYO FUJII, AKIRA HACHIMORI, YOSHIYUKI KONDO, and KOSUKE OHKI **615**

Haffner, M.
A sensitive fluorographic method for the detection of nopaline and octopine synthase activities in *Brassica* crown-gall tissues
LARRY A. HOLBROOK, MARGARET HAFFNER, and BRIAN L.A. MIKI **126**

Hart, D.A.
Characterization of lithium-induced enzyme release from human polymorphonuclear leukocytes
DAVID A. HART, YOLANDA GROENEWOUD, and SUZANNE CHAMBERLAND **880**

Hasel, K.W.
Cloning and *in vitro* expression of the measles virus matrix gene
PETER A. GREER, KARL W. HASEL, and STEWART MILLWARD **1038**

Hatton, M.W.C.
Erratum: On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
LESLIE R. BERRY, FRANK V. PUZZUOLI, and MARK W.C. HATTON **77**

A comparison of two procedures used for complexing Fe(III) with human apotransferrin: I. physicochemical properties of the Fe(III)-transferrin products
LESLIE R. BERRY and MARK W.C. HATTON **936**

Hay, C.W.
Isolation of a human von Willebrand factor cDNA from the hybrid endothelial cell line EA.hy926
BERNARD A. VAN OOST, CORA-JEAN S. EDGELL, COLIN W. HAY, and ROSS T.A. MACGILLIVRAY **699**

Hayden, L.J.
Receptors for epidermal growth factor (urogastrone) and insulin in primary cultures of rat hepatocytes maintained in serum-free medium
M. O'CONNOR-MCCOURT, M. SOLEY, L.J. HAYDEN, and M.D. HOLLENBERG **803**

Hee-Cheong, M.
Diacylglycerol lipase and kinase activities in rabbit aorta and coronary microvessels
DAVID L. SEVERSON and MARIETTE HEE-CHEONG **976**

Helms, S.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Hencin, R.S.
Carbodiimide-mediated conjugation of hippuric acid to concanavalin A: retention of ligand binding and hemagglutinating activities
JAMES F. PRESTON III and RONALD S. HENCIN **1366**

Hofmann, T.
The *RPO31* gene of *Saccharomyces cerevisiae* encodes the largest subunit of RNA polymerase III
MATTHEW MOYLE, THEO HOFMANN, and C. JAMES INGLES **717**

Holbrook, L.A.
A sensitive fluorographic method for the detection of nopaline and octopine synthase activities in *Brassica* crown-gall tissues
LARRY A. HOLBROOK, MARGARET HAFFNER, and BRIAN L.A. MIKI **126**

Hollenberg, M.D.
Receptors for epidermal growth factor (urogastrone) and insulin in primary cultures of rat hepatocytes maintained in serum-free medium
M. O'CONNOR-MCCOURT, M. SOLEY, L.J. HAYDEN, and M.D. HOLLENBERG **803**

Holmes, C.F.B.
Acetylatable lipoic acid residues interact directly with lipoamide dehydrogenase in the pyruvate dehydrogenase multienzyme complex of *Escherichia coli*
S. ROBERT ADAMSON, CHARLES F.B. HOLMES, and KENNETH J. STEVENSON **250**

The amino acid sequence encompassing the active-site histidine residue of lipoamide dehydrogenase from *Escherichia coli* labelled with a bifunctional arsenoxide
CHARLES F.B. HOLMES and KENNETH J. STEVENSON **509**

Holub, B.J.
The relative degradation of [^{14}C]eicosapentaenoyl and [^{3}H]arachidonoyl species of phosphatidylinositol and phosphatidylcholine in thrombin-stimulated human platelets
BONNIE J. WEAVER and BRUCE J. HOLUB **1256**

Hou, C.
Subunit interactions in the F_1 adenosine triphosphatase from the thermophilic bacterium PS3 determined by chemical cross-linking
NOBUHITO SONE, CYNTHIA HOU, and PHILIP D. BRAGG **229**

Howell, G.M.
Interaction of steroids with the nuclear envelope
Y.A. LEFEBVRE, J.T. VENKATRAMAN, E.J. GOLSTEYN, and G.M. HOWELL **594**

Hryshko, L.
Photoinactivation of acetylcholinesterase by erythrosin B and related compounds
GEORGE TOMLINSON, MAXWELL D. CUMMINGS, and LARRY HRYSHKO **515**

Hsuanyu, Y.
Flow kinetics of immobilized β-glucosidase
YUCHIONG HSUANYU and KEITH J. LAIDLER **139**

Huber, R.E.
A detailed examination of the iodination of β-galactosidase: stoichiometric inactivation by nonspecific iodination
L.A. EDWARDS and R.E. HUBER **523**

Hussain, R.A.
Modulation by phenobarbital of the differentiation of 3T3 preadipocytes
JOEL G. PARKES, ROSHAN A. HUSSAIN, and DAVID M. GOLDBERG **1141**

Iantomasi, T.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
CRISTINA TREVES, MARIA TERESA VINCENZINI, PAOLO VANNI, TERESA IANTOMASI, MARIA STIO, and VINCENZO BACCARI **1310**

Ingles, C.J.
The *RPO31* gene of *Saccharomyces cerevisiae* encodes the largest subunit of RNA polymerase III
MATTHEW MOYLE, THEO HOFMANN, and C. JAMES INGLES **717**

Jacobs, F.A.
Stability of histone mRNAs is related to their location in polysomes
R. CURTIS BIRD, FREDERIK A. JACOBS, and BRUCE H. SELLS **99**

Jaikaran, A.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Johnson, D.J.
The effect of developing hypertension on the synthesis and accumulation of elastin in the aorta of the rat
F.W. KEELEY and D.J. JOHNSON **38**

Jones, R.E.
Light-induced interaction between rhodopsin and GTP-binding protein leads to the hydrolysis of GTP in the rod outer segment
B.D. GUPTA, T.J. BORYS, S. DESHPANDE, R.E. JONES, and E.W. ABRAHAMSON **304**

Jurik, F.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **1382**

Kajioka, R.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Kaplan, B.S.
Analysis of the Heymann nephritogenic glycoprotein in rat, mouse, and human kidney
P.R. GOODYER, M. MILLS, and B.S. KAPLAN **441**

Kaplan, H.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. KAPLAN, G. ODA, H. BIETLOT, P. CAREY, M. POZSGAY, and P. FAST **1226**

Kashem, M.A.
Kinetics of the oxidation of reduced nicotinamide adenine dinucleotide by horseradish peroxidase compounds I and II
MOHAMMED A. KASHEM and H. BRIAN DUNFORD **323**

Kay, C.M.
Erratum: Hydrodynamic and optical properties of the wheat germ E_m protein
WILLIAM D. MCCUBBIN, CYRIL M. KAY, and BYRON G. LANE **264**

Keeley, F.W.
The effect of developing hypertension on the synthesis and accumulation of elastin in the aorta of the rat
F.W. KEELEY and D.J. JOHNSON **38**

Kennedy, T.D.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Keough, K.M.W.
Modifications of lipid structure and their influence on mesomorphism in model membranes: the influence of hydrocarbon chains
K.M.W. KEOUGH **44**

Keppler, D.
Inhibition of the cathepsin B like proteinase by a low molecular weight cysteine-proteinase inhibitor from ascitic fluid and plasma α_2 macroglobulin
MAURICE PAGANO, DANIEL KEPPLER, VERONIQUE FUMERON-DALET, and ROBERT ENGLER **1218**

Khan, B.M.
Electron paramagnetic resonance studies of heme *c* and its nitrosyl derivative in *Vibrio (Achromobacter) fischeri* nitrite reductase
JAI C. SADANA, BASHIR M. KHAN, IAN V. FRY, and RICHARD CAMMACK **394**

Kim, I.C.
Antigenic analysis of testicular cytochromes *c* using monoclonal antibodies
IN C. KIM and HECTOR NOLLA **1211**

Kindl, B.
Unsaturated fatty acids inhibit ADP-arachidonate-induced platelet aggregation without affecting thromboxane synthesis
ELLA DRATEWKA-KOS, D.O. TINKER, and BRIGITTE KINDL **906**

Klip, A.
Chemical and genetic comparison of the glucose and nucleoside transporters
AMIRA KLIP, DENISE WALKER, AMOS COHEN, and CHUNGYEE LEUNG **1170**

Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT, DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG **1181**

Kluger, R.
Reaction of the anionic acetylation agent methyl acetyl phosphate with D-3-hydroxybutyrate dehydrogenase
RONALD KLUGER and WING-CHEONG TSUI **434**

Koa, H.
An immunochemical study of *Neurospora* nucleases
MURRAY J. FRASER, TERRY Y.-K. CHOW, HELGA COHEN, and HELENA KOA **106**

Kondo, Y.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
TOSHIHIRO FUJII, TATSUO SUZUKI, MICHIYO FUJII, AKIRA HACHIMORI, YOSHIYUKI KONDO, and KOSUKE OHKI **615**

Kreis, C.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. MATUSIK, C. KREIS, P. MCNICOL, R. SWEETLAND, C. MULLIN, W.H. FLEMING, and J.G. DODD **601**

Krupka, R.M.
Looking for probes of gated channels: studies of the inhibition of glucose and choline transport in erythrocytes
R.M. KRUPKA and R. DEVÉS **1099**

Kuksis, A.
Effect of different neutral phospholipids on apolipoprotein binding by artificial lipid particles *in vivo*
MING-FOR TONG and ARNIS KUKSIS **826**

Effect of acidic phospholipids on apolipoprotein binding by artificial lipid particles *in vivo*
MING-FOR TONG and ARNIS KUKSIS **836**

Investigation of the role of micellar phospholipid in the preferential uptake of cholesterol over sitosterol by dispersed rat jejunal villus cells
P. CHILD and A. KUKSIS **847**

Kuliszewski, M.J.
Erratum: Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI, GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **161**

Kundu, B.
Proton motive force in a photodenitrifier, *Rhodopseudomonas sphaeroides* forma specialis *denitrificans*
BALARAM KUNDU and D.J.D. NICHOLAS **328**

Na^+ and K^+ transport in a photodenitrifier, *Rhodopseudomonas sphaeroides* f.sp. *denitrificans*
BALARAM KUNDU and D.J.D. NICHOLAS **946**

Kuwata, F.
Osteonectin is a minor component of mineralized connective tissues in rat
PAUL ZUNG, CARMELO DOMENICUCCI, SAFIA WASI, FUMIYUKI KUWATA, and JARO SODEK **356**

Kwan, C.-Y.
Aggregation of smooth muscle membranes and its use in the preparation of plasma membrane enriched fraction from gastric fundus smooth muscle
CHIU-YIN KWAN **535**

Kwok, Y.N.
Characterization of opioid peptides in the rat stomach
ERICA NISHIMURA, YIN NAM KWOK, and CHRISTOPHER H.S. MCINTOSH **733**

Kwong, L.
The distribution of the stalk cell differentiation inducing factor and other lipids during the differentiation of *Dictyostelium discoideum*
NANCY NEAVE, LINDA KWONG, JAMES I.S. MACDONALD, and GERALD WEEKS **85**

Laberge, C.
Purification of mRNA coding for the enzyme deficient in hereditary tyrosinemia, fumarylacetoacetate hydrolase
LOUIS M. NICOLE, JEAN-PAUL VALET, CLAUDE LABERGE, and ROBERT M. TANGUAY **489**

Laidler, K.J.
Flow kinetics of immobilized β-glucosidase
YUCHIONG HSUANYU and KEITH J. LAIDLER **139**

Lai Fatt, R.B.
Inhibition of protein synthesis enhances transformation of primary cells by viral DNA
I. MAK, R.B. LAI FATT, and S. MAK **256**

Lamarre, D.
Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase
DANIEL LAMARRE, BRIAN TALBOT, YVAN LEDUC, SYLVIANE MULLER, and GUY POIRIER **368**

Landré, P.
Purification par séparation de phase et caractérisation du plasmalemme de l'épicotyle de pois
JACQUES REMBUR, PIERRE LANDRÉ et ARLETTE NOUGARÈDE **448**

Lane, B.G.
Erratum: Hydrodynamic and optical properties of the wheat germ E_m protein
WILLIAM D. MCCUBBIN, CYRIL M. KAY, and BYRON G. LANE **264**

Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Lapointe, J.
The so-called $tRNA_1^{Glu}$ of *Escherichia coli* is a stable denatured conformer of the major isoacceptor $tRNA_2^{Glu}$
THOMAS-LOUIS TREMBLAY and JACQUES LAPOINTE **315**

Laroche, A.
Molecular cloning of stage specific mRNAs from amoebae and plasmodia of *Physarum polycephalum*
DOMINICK PALLOTTA, ANDRÉ LAROCHE, ANNE TESSIER, THOMAS SHINNICK, and GÉRALD LEMIEUX **1294**

Lasthuis, A.-M.
Activity and secretion of sialyltransferase in primary monolayer cultures of rat hepatocytes cultured with and without dexamethasone
WILLEM VAN DIJK, WILLEM BOERS, MIEKE SALA, ANNE-MARIE LASTHUIS, and SAILEN MOOKERJEA **79**

LeBel, D.
Identification of the catalytic subunit of the ATP diphosphohydrolase by photoaffinity labeling of high-affinity ATP-binding sites of pancreatic zymogen granule membranes with 8-azido-[α-^{32}P]ATP
DENIS LEBEL and MARLYNE BEATTIE **13**

Reducing conditions induce a total degradation of the major zymogen granule membrane protein in both its membranous and its soluble form. Immunochemical quantitation of the two forms
JEAN PAQUETTE, FRANÇOIS A. LEBLOND, MARLYNE BEATTIE, and DENIS LEBEL **456**

Leblond, F.A.
Reducing conditions induce a total degradation of the major zymogen granule membrane protein in both its membranous and its soluble form. Immunochemical quantitation of the two forms
JEAN PAQUETTE, FRANÇOIS A. LEBLOND, MARLYNE BEATTIE, and DENIS LEBEL **456**

Leduc, Y.
Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase
DANIEL LAMARRE, BRIAN TALBOT, YVAN LEDUC, SYLVIANE MULLER, and GUY POIRIER **368**

Lee, K.K.
Synthetic peptides as substrates for processing enzymes in the bovine pituitary
K.K. LEE, AOIFE M. CONWAY, and THOMAS J. CARNE **1356**

Lee, L.
Hydrophobic binding domains of rat intestinal maltase–glucoamylase
L. LEE and G. FORSTNER **782**

Lee, P.E.
DNA components of *Tipula* iridescent virus
S. TAJBAKHSH, M.J. DOVE, P.E. LEE, and V.L. SELIGY **495**

Lefebvre, Y.A.
Interaction of steroids with the nuclear envelope
Y.A. LEFEBVRE, J.T. VENKATRAMAN, E.J. GOLSTEYN, and G.M. HOWELL **594**

Lem, N.W.
Partial purification and characterization of phosphoenolpyruvate carboxylase from the cyanobacterium *Anabaena variabilis*
NORA W. LEM, DONNA M. PENROSE, and BERNARD R. GLICK **427**

Lemieux, G.
Changes in gene expression during spherulation in *Physarum polycephalum*
FRANÇOIS BERNIER, VERN L. SELIGY, DOMINICK PALLOTTA, and GÉRALD LEMIEUX **337**

Molecular cloning of stage specific mRNAs from amoebae and plasmodia of *Physarum polycephalum*
DOMINICK PALLOTTA, ANDRÉ LAROCHE, ANNE TESSIER, THOMAS SHINNICK, and GÉRALD LEMIEUX **1294**

Letarte, M.
Correlations between the 44D7 antigenic complex and the plasma membrane Na^+-Ca^{2+} exchanger
MICHELLE LETARTE, ELIZABETH J. QUACKENBUSH, REUBEN BAUMAL, and MAREK MICHALAK **1160**

Lettre, F.
Cellular localization of *Drosophila* 83-kilodalton heat shock protein in normal, heat-shocked, and recovering cultured cells with a specific antibody
M.E. CARBAJAL, J.-L. DUBAND, F. LETTRE, J.-P. VALET, and R.M. TANGUAY **816**

Leung, C.
Chemical and genetic comparison of the glucose and nucleoside transporters
AMIRA KLIP, DENISE WALKER, AMOS COHEN, and CHUNGYEE LEUNG **1170**

Leyton, L.
Two satisfactory methods for purification of human acrosin
LISETTE LEYTON, ALFREDO DE IOANNES, HORACIO B. CROXATTO, ELISE J. GRAHAM, and JOHN S. ELCE **1020**

Monoclonal antibodies to bovine and human acrosin
JOHN S. ELCE, ELISE J. GRAHAM, GIZELA ZBORIL, LISETTE LEYTON, ELCIRA PEREZ, HORATIO B. CROXATTO, and ALFREDO DE IOANNES **1242**

Li, W.W.
A steryl glycoside fraction from *Momordica charantia* seeds with an inhibitory action on lipid metabolism *in vitro*
T.B. NG, C.M. WONG, W.W. LI, and H.W. YEUNG **766**

Lim, M.S.
Phosphorylation of skeletal and cardiac muscle C-proteins by the catalytic subunit of cAMP-dependent protein kinase
MEGAN S. LIM and MICHAEL P. WALSH **622**

Lim, P.
The supply of both CDP-choline and diacylglycerol can regulate the rate of phosphatidylcholine synthesis in HeLa cells
PETER LIM, ROSEMARY CORNELL, and DENNIS E. VANCE **692**

Lingwood, C.A.
Synthesis and use of galactolipid sulfotransferase substrate–analogue affinity probes: possible localization of the testicular enzyme
CLIFFORD LINGWOOD and TRUDY TAYLOR **631**

Colocalization of sulfogalactosylacylalkylglycerol (SGG) and its binding protein during spermatogenesis and sperm maturation. Topology of SGG defines a new testicular germ cell membrane domain
C.A. LINGWOOD **984**

Lintlop, S.P.
Digitalis-like biological activity in rat cerebellum
STEVEN P. LINTLOP, BILL DURANTE, FRED A. SUNAHARA, and AMAR K. SEN **1049**

Lo, R.Y.C.
A simple immunological detection method for the direct screening of genes from clone banks
REGGIE Y.C. LO and LYNNE A. CAMERON **73**

Lo, T.C.Y.
Approaches used to examine the mechanism and regulation of hexose transport in rat myoblasts
TONY D'AMORE and THEODORE C.Y. LO **1081**

Loewen, P.C.
Purification and characterization of catalase HPII from *Escherichia coli* K12
PETER C. LOEWEN and JACEK SWITALA **638**

Lund, K.
Synthesis of mitochondrial macromolecules in herpes simplex type 1 virus infected Vero cells
KAREN LUND and BARRY ZIOLA **1303**

MacDonald, J.I.S.
The distribution of the stalk cell differentiation inducing factor and other lipids during the differentiation of *Dictyostelium discoideum*
NANCY NEAVE, LINDA KWONG, JAMES I.S. MACDONALD, and GERALD WEEKS **85**

MacGillivray, R.T.A.
Isolation of a human von Willebrand factor cDNA from the hybrid endothelial cell line EA.hy926
BERNARD A. VAN OOST, CORA-JEAN S. EDGELL, COLIN W. HAY, and ROSS T.A. MACGILLIVRAY **699**

MacKinlay, S.A.
Taxol-induced assembly and characterization of microtubule proteins from developing brine shrimp (*Artemia*)
PARVANEH RAFIEE, SARA ANN MACKINLAY, and THOMAS H. MACRAE **238**

MacLean, L.
Structure of the O-chain polysaccharide of the phenol-phase soluble lipopolysaccharide of *Escherichia coli* O:157:H7
MALCOLM B. PERRY, LEANN MACLEAN, and DOUGLAS W. GRIFFITH **21**

MacRae, T.H.
Taxol-induced assembly and characterization of microtubule proteins from developing brine shrimp (*Artemia*)
PARVANEH RAFIEE, SARA ANN MACKINLAY, and THOMAS H. MACRAE **238**

Majumdar, S.
Spontaneous cholesterol movement between lipid vesicles and monkey small intestinal brush border membrane
TARUN SADANA, SANKAR N. SANYAL, SIDDARTHA MAJUMDAR, KAMLA DHALL, and RABINDRA NATH CHAKRAVARTI **575**

Mak, I.
Inhibition of protein synthesis enhances transformation of primary cells by viral DNA
I. MAK, R.B. LAI FATT, and S. MAK **256**

Mak, S.
Inhibition of protein synthesis enhances transformation of primary cells by viral DNA
I. MAK, R.B. LAI FATT, and S. MAK **256**

Manery, J.F.
The inactivation by concanavalin A of the ecto-ATPase and ecto-acetylcholinesterase of intact skeletal muscles
J.S. STILL, J.F. MANERY, and E.E. DRYDEN **1272**

Mantle, M.
The effects of delipidation on the major antigenic determinant of purified human intestinal mucin
M. MANTLE and J.F. FORSTNER **223**

Marashi, F.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Marceau, N.
Cell of origin of distinct cultured rat liver epithelial cells, as typed by cytokeratin and surface component selective expression
NORMAND MARCEAU, LUCIE GERMAIN, RENÉ GOYETTE, MICHELINE NOËL, and HENRIETTE GOURDEAU **788**

Martin, L.H.
Monoclonal antibodies to cuticular proteins of *Panagrellus silusiae*: identification of a common collagenous epitope
L.H. MARTIN, N.C. BOLS, and J.J. PASTERNAK **743**

Matheson, A.T.
The primary structure of the ribosomal A-protein (L12) from the moderate halophile NRCC 41227
PAUL FALKENBERG, MAKOTO YAGUCHI, CAMILLE ROY, MICHAEL ZUKER, and ALASTAIR T. MATHESON **675**

Matoušek, J.
The substrate specificity of pollen extracellular nuclease
JAROSLAV MATOUŠEK **891**

Matusik, R.J.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. MATUSIK, C. KREIS, P. MCNICOL, R. SWEETLAND, C. MULLIN, W.H. FLEMING, and J.G. DODD **601**

McConachie, D.R.
The immediate induction of extensive cell fusion by Ca^{2+} addition in *Dictyostelium discoideum*
DAVID R. MCCONACHIE and DANTON H. O'DAY **1281**

McCubbin, W.D.
Erratum: Hydrodynamic and optical properties of the wheat germ E_m protein
WILLIAM D. MCCUBBIN, CYRIL M. KAY, and BYRON G. LANE **264**

McElhaney, R.N.
Modifications of membrane lipid structure and their influence on cell growth, passive permeability, and enzymatic and transport activities in *Acholeplasma laidlawii* B
RONALD N. MCELHANEY **58**

McIntosh, C.H.S.
Characterization of opioid peptides in the rat stomach
ERICA NISHIMURA, YIN NAM KWOK, and CHRISTOPHER H.S. MCINTOSH **733**

McMurray, W.C.
Origins of the phospholipids in animal mitochondria
W.C. MCMURRAY **1115**

McNicol, P.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. MATUSIK, C. KREIS, P. MCNICOL, R. SWEETLAND, C. MULLIN, W.H. FLEMING, and J.G. DODD **601**

Mee, J.D.
Chemotaxis-associated properties of separated prestalk and prespore cells of *Dictyostelium discoideum*
J.D. MEE, D.M. TORTOLO, and M.B. COUKELL **722**

Mehlhorn, I.E.
Freeze-etch visualization of the outer surface of myoblasts in culture
KATHRYN R. BARBER, INGRID E. MEHLHORN, GRACE PÁRRAGA, and CHRIS W.M. GRANT **194**

Ménard, L.
Poly(ADP-ribose) accessibility to poly(ADP-ribose) glycohydrolase activity on poly(ADP-ribosyl)ated nucleosomal proteins
A. GAUDREAU, L. MÉNARD, G. DE MURCIA, and G.G. POIRIER **146**

Mezl, V.A.
Heating RNA before cell-free translation gives no selective increases among the translation products of RNA from rat heart and mammary gland, rabbit reticulocyte membranes, or trout liver
VASEK A. MEZL, JANE CLARK, and PASCALE M. GARBER **504**

Michalak, M.
Correlations between the 44D7 antigenic complex and the plasma membrane $Na^+ - Ca^{2+}$ exchanger
MICHELLE LETARTE, ELIZABETH J. QUACKENBUSH, REUBEN BAUMAL, and MAREK MICHALAK **1160**

Miki, B.L.A.
A sensitive fluorographic method for the detection of nopaline and octopine synthase activities in *Brassica* crown-gall tissues
LARRY A. HOLBROOK, MARGARET HAFFNER, and BRIAN L.A. MIKI **126**

Miller, R.W.
Properties of the alfalfa – *Rhizobium meliloti* symbiotic nitrogenase enzyme system *in vivo* and *in vitro*
R.W. MILLER, A. AL-JOBORE, and W.B. BERNDT **556**

Mills, M.
Analysis of the Heymann nephritogenic glycoprotein in rat, mouse, and human kidney
P.R. GOODYER, M. MILLS, and B.S. KAPLAN **441**

Millward, S.
Cloning and *in vitro* expression of the measles virus matrix gene
PETER A. GREER, KARL W. HASEL, and STEWART MILLWARD **1038**

Mock, T.
Effects of fatty acids on phosphatidylcholine biosynthesis in isolated hamster heart
THOMAS MOCK, TRACY L. SLATER, GILBERT ARTHUR, ALVIN C. CHAN, and PATRICK C. CHOY **413**

Mookerjea, S.
Activity and secretion of sialyltransferase in primary monolayer cultures of rat hepatocytes cultured with and without dexamethasone
WILLEM VAN DIJK, WILLEM BOERS, MIEKE SALA, ANNE-MARIE LASTHUIS, and SAILEN MOOKERJEA **79**

Moses, G.
L-Malate transport and proton symport in vesicles prepared from *Pseudomonas putida*
F.R. AGBANYO, G. MOSES, and N.F. TAYLOR **1190**

Moyle, M.
The *RPO31* gene of *Saccharomyces cerevisiae* encodes the largest subunit of RNA polymerase III
MATTHEW MOYLE, THEO HOFMANN, and C. JAMES INGLES **717**

Mozaffari, B.
Selective loss of uncoupling protein from mitochondria of surgically denervated brown adipose tissue of cold-acclimated mice
M. DESAUTELS, R.A. DULOS, and B. MOZAFFARI **1125**

Muller, S.
Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase
DANIEL LAMARRE, BRIAN TALBOT, YVAN LEDUC, SYLVIANE MULLER, and GUY POIRIER **368**

Mullin, C.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. MATUSIK, C. KREIS, P. MCNICOL, R. SWEETLAND, C. MULLIN, W.H. FLEMING, and J.G. DODD **601**

Muto, N.
Purification and properties of human placental NADPH-cytochrome P-450 reductase
NORIO MUTO and LIAT TAN **184**

Nakano, T.
Purification and characterization of a gelatinase produced by fibroblasts from human gingiva
TAKUO NAKANO and PAUL G. SCOTT **387**

Narindrasorasak, S.
Purification and polyamine activation of a high-affinity 3′,5′-cAMP phosphodiesterase from rabbit muscle
SUREE NARINDRASORASAK and BISHNU D. SANWAL **930**

Neave, N.
The distribution of the stalk cell differentiation inducing factor and other lipids during the differentiation of *Dictyostelium discoideum*
NANCY NEAVE, LINDA KWONG, JAMES I.S. MACDONALD, and GERALD WEEKS **85**

Ng, S.K.
Activation of phosphoenolpyruvate carboxykinase isolated from *Veillonella parvula*
HELEN S. CHAU and STEPHEN K. NG **898**

Ng, T.B.
A steryl glycoside fraction from *Momordica charantia* seeds with an inhibitory action on lipid metabolism *in vitro*
T.B. NG, C.M. WONG, W.W. LI, and H.W. YEUNG **766**

Nicholas, D.J.D.
Proton motive force in a photodenitrifier, *Rhodopseudomonas sphaeroides* forma specialis *denitrificans*
BALARAM KUNDU and D.J.D. NICHOLAS **328**

Na^+ and K^+ transport in a photodenitrifier, *Rhodopseudomonas sphaeroides* f.sp. *denitrificans*
BALARAM KUNDU and D.J.D. NICHOLAS **946**

Nicholls, D.M.
Erratum: Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI, GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **161**

Nicholls, P.
Effects of triorganotin-mediated anion–hydroxide exchange upon reconstituted cytochrome *c* oxidase proteoliposomes
A.P. SINGH and P. NICHOLLS **647**

Nicole, L.M.
Purification of mRNA coding for the enzyme deficient in hereditary tyrosinemia, fumarylacetoacetate hydrolase
LOUIS M. NICOLE, JEAN-PAUL VALET, CLAUDE LABERGE, and ROBERT M. TANGUAY **489**

Nishimura, E.
Characterization of opioid peptides in the rat stomach
ERICA NISHIMURA, YIN NAM KWOK, and CHRISTOPHER H.S. MCINTOSH **733**

Noble, R.L.
Cultured Nb rat lymphoma cells in endocrine and cancer research
PETER W. GOUT, ROBERT L. NOBLE, and CHARLES T. BEER **659**

Noël, M.
Cell of origin of distinct cultured rat liver epithelial cells, as typed by cytokeratin and surface component selective expression
NORMAND MARCEAU, LUCIE GERMAIN, RENÉ GOYETTE, MICHELINE NOËL, and HENRIETTE GOURDEAU **788**

Nolla, H.
Antigenic analysis of testicular cytochromes *c* using monoclonal antibodies
IN C. KIM and HECTOR NOLLA **1211**

Nougarède, A.
Purification par séparation de phase et caractérisation du plasmalemme de l'épicotyle de pois
JACQUES REMBUR, PIERRE LANDRÉ et ARLETTE NOUGARÈDE **448**

O'Brien, D.
The roles of cAMP and cAMP-dependent protein kinase in the regulation of adrenocortical functions: analysis using DNA-mediated gene transfer
MARGARET WONG, DONALEE O'BRIEN, and BERNARD P. SCHIMMER **1066**

O'Connor-McCourt, M.
Receptors for epidermal growth factor (urogastrone) and insulin in primary cultures of rat hepatocytes maintained in serum-free medium
M. O'CONNOR-MCCOURT, M. SOLEY, L.J. HAYDEN, and M.D. HOLLENBERG **803**

Oda, G.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. KAPLAN, G. ODA, H. BIETLOT, P. CAREY, M. POZSGAY, and P. FAST **1226**

O'Day, D.H.
The immediate induction of extensive cell fusion by Ca^{2+} addition in *Dictyostelium discoideum*
DAVID R. MCCONACHIE and DANTON H. O'DAY **1281**

Ohki, K.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
TOSHIHIRO FUJII, TATSUO SUZUKI, MICHIYO FUJII, AKIRA HACHIMORI, YOSHIYUKI KONDO, and KOSUKE OHKI **615**

Orlowski, J.
Androgen metabolism and actions in rat ventral prostate epithelial and stromal cell cultures
J. ORLOWSKI and A.F. CLARK **583**

Orr, J.
Germin: compartmentation of two forms of the protein by washing growing wheat embryos
BYRON G. LANE, ZBYSZKO F. GRZELCZAK, THERESA D. KENNEDY, ROBERT KAJIOKA, JEANNE ORR, SANDRA D'AGOSTINO, and ANNA JAIKARAN **1025**

Ozen, N.
Regulation of rat liver phosphatidylethanolamine *N*-methyltransferase by cytosolic factors. Examination of a role for reversible protein phosphorylation
STEVEN L. PELECH, NILAY OZEN, FRANÇOIS AUDUBERT, and DENNIS E. VANCE **565**

Pagano, M.
Inhibition of the cathepsin B like proteinase by a low molecular weight cysteine-proteinase inhibitor from ascitic fluid and plasma α_2 macroglobulin
MAURICE PAGANO, DANIEL KEPPLER, VERONIQUE FUMERON-DALET, and ROBERT ENGLER **1218**

Pallotta, D.
Changes in gene expression during spherulation in *Physarum polycephalum*
FRANÇOIS BERNIER, VERN L. SELIGY, DOMINICK PALLOTTA, and GÉRALD LEMIEUX 337

Molecular cloning of stage specific mRNAs from amoebae and plasmodia of *Physarum polycephalum*
DOMINICK PALLOTTA, ANDRÉ LAROCHE, ANNE TESSIER, THOMAS SHINNICK, and GÉRALD LEMIEUX 1294

Palmer, F.B.St.C.
Metabolism of lysopolyphosphoinositides by rat brain and liver microsomes
FREDERIC B. ST. C. PALMER 117

Pan, C.C.
Regulation of rabbit fetal glycogen: effect of *in utero* fetal decapitation on the metabolism of glycogen in fetal heart, lung, and liver
BHAGU R. BHAVNANI, C. ALLAN WOOLEVER, and CHEE CHUNG PAN 405

Paquette, J.
Reducing conditions induce a total degradation of the major zymogen granule membrane protein in both its membranous and its soluble form. Immunochemical quantitation of the two forms
JEAN PAQUETTE, FRANÇOIS A. LEBLOND, MARLYNE BEATTIE, and DENIS LEBEL 456

Parissenti, A.M.
Relationship of the cGMP-binding activity to the cGMP-specific phosphodiesterase in *Dictyostelium discoideum*
A.M. PARISSENTI and M.B. COUKELL 528

Parkes, J.G.
Modulation by phenobarbital of the differentiation of 3T3 preadipocytes
JOEL G. PARKES, ROSHAN A. HUSSAIN, and DAVID M. GOLDBERG 1141

Secretion of triglyceride lipase from rat hepatocytes in culture: modulation by insulin and phenobarbital
JOEL G. PARKES, PETER CHAN, and DAVID M. GOLDBERG 1147

Párraga, G.
Freeze-etch visualization of the outer surface of myoblasts in culture
KATHRYN R. BARBER, INGRID E. MEHLHORN, GRACE PÁRRAGA, and CHRIS W.M. GRANT 194

Pasternak, J.J.
Monoclonal antibodies to cuticular proteins of *Panagrellus silusiae*: identification of a common collagenous epitope
L.H. MARTIN, N.C. BOLS, and J.J. PASTERNAK 743

Pegg, W.
Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT, DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG 1181

Pelech, S.L.
Regulation of rat liver phosphatidylethanolamine *N*-methyltransferase by cytosolic factors. Examination of a role for reversible protein phosphorylation
STEVEN L. PELECH, NILAY OZEN, FRANÇOIS AUDUBERT, and DENNIS E. VANCE 565

Penrose, D.M.
Partial purification and characterization of phosphoenolpyruvate carboxylase from the cyanobacterium *Anabaena variabilis*
NORA W. LEM, DONNA M. PENROSE, and BERNARD R. GLICK 427

Production of antibodies against sorghum leaf phosphoenolpyruvate carboxylase monomer and their use in monitoring phosphoenolpyruvate carboxylase levels in sorghum tissues
DONNA M. PENROSE and BERNARD R. GLICK 1234

Perez, E.
Monoclonal antibodies to bovine and human acrosin
JOHN S. ELCE, ELISE J. GRAHAM, GIZELA ZBORIL, LISETTE LEYTON, ELCIRA PEREZ, HORATIO B. CROXATTO, and ALFREDO DE IOANNES 1242

Perry, M.B.
Structure of the O-chain polysaccharide of the phenol-phase soluble lipopolysaccharide of *Escherichia coli* O:157:H7
MALCOLM B. PERRY, LEANN MACLEAN, and DOUGLAS W. GRIFFITH 21

Structural studies of the capsular polysaccharide from *Haemophilus pleuropneumoniae* serotype 1
ELEONORA ALTMAN, JEAN-ROBERT BRISSON, and MALCOLM B. PERRY 707

Structure of the O-chain of the lipopolysaccharide of *Haemophilus pleuropneumoniae* serotype 1
ELEONORA ALTMAN, JEAN-ROBERT BRISSON, and MALCOLM B. PERRY 1317

Poirier, G.
Poly(ADP-ribose) accessibility to poly(ADP-ribose) glycohydrolase activity on poly(ADP-ribosyl)ated nucleosomal proteins
A. GAUDREAU, L. MÉNARD, G. DE MURCIA, and G.G. POIRIER 146

Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase
DANIEL LAMARRE, BRIAN TALBOT, YVAN LEDUC, SYLVIANE MULLER, and GUY POIRIER 368

Possmayer, F.
Translocation of Mg^{2+}-dependent phosphatidate phosphohydrolase between cytosol and endoplasmic reticulum in a permanent cell line from human lung
PAUL A. WALTON and FRED POSSMAYER 1135

Potvin, C.
Chemical DNA sequencing in opposite direction to the dideoxy chain termination method, using a single preparation of M13 single-stranded DNA
GUY BELLEMARE, CLAUDE POTVIN, and CLAIRE SIMARD 70

Pozsgay, M.
Selective isolation of free or blocked amino-terminal peptides from protein digests by high performance liquid chromatography: Application to the crystal protein of *Bacillus thuringiensis*
H. KAPLAN, G. ODA, H. BIETLOT, P. CAREY, M. POZSGAY, and P. FAST 1226

Preston, J.F., III
Carbodiimide-mediated conjugation of hippuric acid to concanavalin A: retention of ligand binding and hemagglutinating activities
JAMES F. PRESTON III and RONALD S. HENCIN 1366

Priest, D.G.
Effects of growth rate and methotrexate on folate polyglutamates and folylpolyglutamate hydrolase activity in Krebs ascites cells
PRATIMA SUR, DAVID G. PRIEST, and MARION T. DOIG **363**

Puzzuoli, F.V.
Erratum: On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
LESLIE R. BERRY, FRANK V. PUZZUOLI, and
MARK W.C. HATTON **77**

Quackenbush, E.J.
Correlations between the 44D7 antigenic complex and the plasma membrane $Na^+ - Ca^{2+}$ exchanger
MICHELLE LETARTE, ELIZABETH J. QUACKENBUSH,
REUBEN BAUMAL, and MAREK MICHALAK **1160**

Rafiee, P.
Taxol-induced assembly and characterization of microtubule proteins from developing brine shrimp (*Artemia*)
PARVANEH RAFIEE, SARA ANN MACKINLAY, and
THOMAS H. MACRAE **238**

Ramlal, T.
Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT,
DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG **1181**

Reed, J.K.
The effect of nerve growth factor on the development of sodium channels in PC12 cells
JUTA K. REED and DIANE ENGLAND **1153**

Rembur, J.
Purification par séparation de phase et caractérisation du plasmalemme de l'épicotyle de pois
JACQUES REMBUR, PIERRE LANDRÉ et
ARLETTE NOUGARÈDE **448**

Ridley, R.G.
Experimental approaches to the study of the biogenesis of mammalian mitochondrial proteins
KARL B. FREEMAN, RANDALL W. YATSCOFF, and
ROBERT G. RIDLEY **1108**

Riendeau, D.
Identification of a 51-kilodalton polypeptide fatty acyl chain acceptor in soluble extracts from mouse cardiac tissue
DENISE GUERTIN, LUCIE GRISÉ-MIRON, and
DENIS RIENDEAU **1249**

Rip, J.W.
Long-term distribution and metabolism of [1-^{14}C]dolichol injected intravenously into rats
JACK W. RIP and KENNETH K. CARROLL **886**

Roche, R.S.
Domain unfolding and the stability of thermolysin in guanidine hydrochloride
RONALD J.T. CORBETT, FAIZAN AHMAD, and
RODNEY S. ROCHE **953**

Rodrigues, P.O.
Enhanced binding of low and high density lipoproteins to human adipocyte plasma membranes: effects of temperature and proteases
BESSIE S. FONG, PEDRO O. RODRIGUES, and AUBIE ANGEL **1378**

Rodríguez, P.
Enzymatic dephosphorylation of retinyl monophosphate by rat liver
PROVIDENCIA RODRÍGUEZ and OLGA BELLO **864**

Romain, Y.
The activity of human kidney arylsulfatases A and B towards catecholamine sulfates
S. DEMASSIEUX, Y. ROMAIN, L. BORDELEAU, D. GRAVEL,
and S. CARRIÈRE **1044**

Rothstein, A.
Nonlogical factors in research: chance and serendipity
ASER ROTHSTEIN **1055**

Roy, C.
The primary structure of the ribosomal A-protein (L12) from the moderate halophile NRCC 41227
PAUL FALKENBERG, MAKOTO YAGUCHI, CAMILLE ROY,
MICHAEL ZUKER, and ALASTAIR T. MATHESON **675**

Ruel, J.
Production of an antibody against rat liver nuclear T_3 receptor
ROBERT FAURE, JEAN RUEL, and JEAN H. DUSSAULT **377**

Sadana, J.C.
Electron paramagnetic resonance studies of heme *c* and its nitrosyl derivative in *Vibrio (Achromobacter) fischeri* nitrite reductase
JAI C. SADANA, BASHIR M. KHAN, IAN V. FRY, and
RICHARD CAMMACK **394**

Sadana, T.
Spontaneous cholesterol movement between lipid vesicles and monkey small intestinal brush border membrane
TARUN SADANA, SANKAR N. SANYAL,
SIDDARTHA MAJUMDAR, KAMLA DHALL, and
RABINDRA NATH CHAKRAVARTI **575**

Sala, M.
Activity and secretion of sialyltransferase in primary monolayer cultures of rat hepatocytes cultured with and without dexamethasone
WILLEM VAN DIJK, WILLEM BOERS, MIEKE SALA,
ANNE-MARIE LASTHUIS, and SAILEN MOOKERJEA **79**

Samji, S.
Erratum: Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI,
GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **161**

Sanwal, B.D.
Purification and polyamine activation of a high-affinity 3′,5′-cAMP phosphodiesterase from rabbit muscle
SUREE NARINDRASORASAK and BISHNU D. SANWAL **930**

Sanyal, S.N.
Spontaneous cholesterol movement between lipid vesicles and monkey small intestinal brush border membrane
TARUN SADANA, SANKAR N. SANYAL,
SIDDARTHA MAJUMDAR, KAMLA DHALL, and
RABINDRA NATH CHAKRAVARTI **575**

Schachter, H.
Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides
HARRY SCHACHTER **163**

Schimmer, B.P.
The roles of cAMP and cAMP-dependent protein kinase in the regulation of adrenocortical functions: analysis using DNA-mediated gene transfer
MARGARET WONG, DONALEE O'BRIEN, and BERNARD P. SCHIMMER **1066**

Schuel, H.
Sea urchin sperm peroxidase is competitively inhibited by benzohydroxamic acid and phenylhydrazine
HERBERT SCHUEL and REGINA SCHUEL **1333**

Schuel, R.
Sea urchin sperm peroxidase is competitively inhibited by benzohydroxamic acid and phenylhydrazine
HERBERT SCHUEL and REGINA SCHUEL **1333**

Scott, P.G.
Purification and characterization of a gelatinase produced by fibroblasts from human gingiva
TAKUO NAKANO and PAUL G. SCOTT **387**

Scrimgeour, K.G.
Biosynthesis of polyglutamates of folates
K.G. SCRIMGEOUR **667**

Sebag, M.
Biochemical changes in progressive muscular dystrophy. XII. Cyclic nucleotides in lymphoid and nonlymphoid organs of dystrophic mice
MANOHAR THAKUR, MIKAEL SEBAG, and UMA SRIVASTAVA **1339**

Seligy, V.L.
Changes in gene expression during spherulation in *Physarum polycephalum*
FRANÇOIS BERNIER, VERN L. SELIGY, DOMINICK PALLOTTA, and GÉRALD LEMIEUX **337**

DNA components of *Tipula* iridescent virus
S. TAJBAKHSH, M.J. DOVE, P.E. LEE, and V.L. SELIGY **495**

Sells, B.H.
Stability of histone mRNAs is related to their location in polysomes
R. CURTIS BIRD, FREDERIK A. JACOBS, and BRUCE H. SELLS **99**

Seman, L.J.
Isolation and partial characterization of apolipoprotein (a) from human lipoprotein (a)
L.J. SEMAN and W.C. BRECKENRIDGE **999**

Sen, A.K.
Digitalis-like biological activity in rat cerebellum
STEVEN P. LINTLOP, BILL DURANTE, FRED A. SUNAHARA, and AMAR K. SEN **1049**

Severson, D.L.
Diacylglycerol lipase and kinase activities in rabbit aorta and coronary microvessels
DAVID L. SEVERSON and MARIETTE HEE-CHEONG **976**

Sharma, R.K.
Regulation of cAMP concentration by calmodulin-dependent cyclic nucleotide phosphodiesterase
RAJENDRA K. SHARMA and JERRY H. WANG **1072**

Shiels, A.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Shinnick, T.
Molecular cloning of stage specific mRNAs from amoebae and plasmodia of *Physarum polycephalum*
DOMINICK PALLOTTA, ANDRÉ LAROCHE, ANNE TESSIER, THOMAS SHINNICK, and GÉRALD LEMIEUX **1294**

Shiu, R.P.C.
Role of ornithine decarboxylase in proliferation of prolactin-dependent lymphoma cells
HARRY P. ELSHOLTZ, ROBERT P.C. SHIU, and HENRY G. FRIESEN **381**

Shriver, J.W.
The structure of myosin and its role in energy transduction in muscle
JOHN W. SHRIVER **265**

Silverman, M.
Comparison of glucose transport mechanisms at opposing surfaces of the renal proximal tubular cell
M. SILVERMAN **1092**

Silverstein, S.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Simard, C.
Chemical DNA sequencing in opposite direction to the dideoxy chain termination method, using a single preparation of M13 single-stranded DNA
GUY BELLEMARE, CLAUDE POTVIN, and CLAIRE SIMARD **70**

Singer, M.A.
Effect of saturated phosphatidylcholines on the functional properties of reconstituted cytochrome oxidase
MICHAEL A. SINGER, MARIA DINDA, MARLENE YOUNG, and LEONARD FINEGOLD **91**

Singh, A.P.
Effects of triorganotin-mediated anion–hydroxide exchange upon reconstituted cytochrome *c* oxidase proteoliposomes
A.P. SINGH and P. NICHOLLS **647**

Singh, V.
Structural requirement for the recognition of luteinizing hormone releasing hormone (LHRH) by monoclonal and conventional anti-LHRH antibodies
VINOD SINGH **1372**

Sinha, U.
Yeast enolase carboxyl modification using Woodward's reagent K
UMA SINHA and JOHN M. BREWER **970**

Skehan, P.
Cytolocalization artifacts with immunofluorescent probes
SUSAN J. FRIEDMAN, CATHARINE L. DEWAR, and PHILIP SKEHAN **1326**

Slater, T.L.
Effects of fatty acids on phosphatidylcholine biosynthesis in isolated hamster heart
THOMAS MOCK, TRACY L. SLATER, GILBERT ARTHUR, ALVIN C. CHAN, and PATRICK C. CHOY **413**

Sodek, J.
Osteonectin is a minor component of mineralized connective tissues in rat
PAUL ZUNG, CARMELO DOMENICUCCI, SAFIA WASI, FUMIYUKI KUWATA, and JARO SODEK **356**

Soley, M.
Receptors for epidermal growth factor (urogastrone) and insulin in primary cultures of rat hepatocytes maintained in serum-free medium
M. O'CONNOR-MCCOURT, M. SOLEY, L.J. HAYDEN, and M.D. HOLLENBERG **803**

Somerville, R.L.
The anthranilate aggregate of *Escherichia coli*: kinetics of inhibition by tryptophan of phosphoribosyltransferase
JOSE E. GONZALEZ and RONALD L. SOMERVILLE **681**

Sone, N.
Subunit interactions in the F_1 adenosine triphosphatase from the thermophilic bacterium PS3 determined by chemical cross-linking
NOBUHITO SONE, CYNTHIA HOU, and PHILIP D. BRAGG **229**

Spence, M.W.
Acid and alkaline ceramidases of rat tissues
MATTHEW W. SPENCE, STEPHEN BEED, and HAROLD W. COOK **400**

Squires, E.J.
Gastric proteases of the Greenland cod *Gadus ogac*. I. Isolation and kinetic properties
E. JAMES SQUIRES, N.F. HAARD, and L.A.W. FELTHAM **205**

Gastric proteases of the Greenland cod *Gadus ogac*. II. Structural properties
E. JAMES SQUIRES, N.F. HAARD, and L.A.W. FELTHAM **215**

Srivastava, U.
Biochemical changes in progressive muscular dystrophy. XII. Cyclic nucleotides in lymphoid and nonlymphoid organs of dystrophic mice
MANOHAR THAKUR, MIKAEL SEBAG, and UMA SRIVASTAVA **1339**

Stan-Lotter, H.
Electrophoretic determination of sulfhydryl groups and its application to complex protein samples, *in vitro* protein synthesis mixtures, and cross-linked proteins
HELGA STAN-LOTTER and PHILIP D. BRAGG **154**

Stanacev, N.Z.
Participation of the microsomal CDP-diglycerides in the mitochondrial biosynthesis of phosphatidylglycerol
LIDIJA STUHNE-SEKALEC, JERZY CHUDZIK, and NIKOLA Z. STANACEV **309**

Stein, G.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Stein, J.
Enhancer-facilitated expression of prokaryotic and eukaryotic genes using human histone gene 5′ regulatory sequences
FARHAD MARASHI, SHERRON HELMS, ALAN SHIELS, SAUL SILVERSTEIN, DANIEL S. GREENSPAN, GARY STEIN, and JANET STEIN **277**

Stevenson, K.J.
Acetylatable lipoic acid residues interact directly with lipoamide dehydrogenase in the pyruvate dehydrogenase multienzyme complex of *Escherichia coli*
S. ROBERT ADAMSON, CHARLES F.B. HOLMES, and KENNETH J. STEVENSON **250**

The amino acid sequence encompassing the active-site histidine residue of lipoamide dehydrogenase from *Escherichia coli* labelled with a bifunctional arsenoxide
CHARLES F.B. HOLMES and KENNETH J. STEVENSON **509**

Still, J.S.
The inactivation by concanavalin A of the ecto-ATPase and ecto-acetylcholinesterase of intact skeletal muscles
J.S. STILL, J.F. MANERY, and E.E. DRYDEN **1272**

Stio, M.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
CRISTINA TREVES, MARIA TERESA VINCENZINI, PAOLO VANNI, TERESA IANTOMASI, MARIA STIO, and VINCENZO BACCARI **1310**

Strasberg, P.
Cerebrosides and psychosine disrupt mitochondrial functions
PAULA STRASBERG **485**

Stuhne-Sekalec, L.
Participation of the microsomal CDP-diglycerides in the mitochondrial biosynthesis of phosphatidylglycerol
LIDIJA STUHNE-SEKALEC, JERZY CHUDZIK, and NIKOLA Z. STANACEV **309**

Sugimoto, Y.
Purification and characterization of benzoyl-L-tyrosine ethyl ester hydrolase from the yolk sac membrane of chicken egg
YASUSHI SUGIMOTO and MASAHIRO YAMADA **543**

Sugimura, Y.
Stromal–epithelial interactions and heterogeneity of proliferative activity within the prostate
GERALD R. CUNHA, ANNEMARIE A. DONJACOUR, and YOSHIKI SUGIMURA **608**

Sunahara, F.A.
Digitalis-like biological activity in rat cerebellum
STEVEN P. LINTLOP, BILL DURANTE, FRED A. SUNAHARA, and AMAR K. SEN **1049**

Sung, W.L.
Hybrid gene synthesis: its application to the assembly of DNA sequences encoding the human parathyroid hormones and analogues
WING L. SUNG, DIANA M. ZAHAB, FEI-LONG YAO, and CHERK S. TAM **133**

Sur, P.
Effects of growth rate and methotrexate on folate polyglutamates and folylpolyglutamate hydrolase activity in Krebs ascites cells
PRATIMA SUR, DAVID G. PRIEST, and MARION T. DOIG **363**

Suzuki, T.
Inhibition of microtubule assembly by poly(L-glutamic acid) and the site of its action
TOSHIHIRO FUJII, TATSUO SUZUKI, MICHIYO FUJII, AKIRA HACHIMORI, YOSHIYUKI KONDO, and KOSUKE OHKI **615**

Sweetland, R.
Regulation of prostatic genes: role of androgens and zinc in gene expression
R.J. MATUSIK, C. KREIS, P. MCNICOL, R. SWEETLAND, C. MULLIN, W.H. FLEMING, and J.G. DODD **601**

Switala, J.
Purification and characterization of catalase HPII from *Escherichia coli* K12
PETER C. LOEWEN and JACEK SWITALA **638**

Tajbakhsh, S.
DNA components of *Tipula* iridescent virus
S. TAJBAKHSH, M.J. DOVE, P.E. LEE, and V.L. SELIGY **495**

Talbot, B.
Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase
DANIEL LAMARRE, BRIAN TALBOT, YVAN LEDUC, SYLVIANE MULLER, and GUY POIRIER **368**

Tam, C.S.
Hybrid gene synthesis: its application to the assembly of DNA sequences encoding the human parathyroid hormones and analogues
WING L. SUNG, DIANA M. ZAHAB, FEI-LONG YAO, and CHERK S. TAM **133**

Tan, L.
Purification and properties of human placental NADPH-cytochrome P-450 reductase
NORIO MUTO and LIAT TAN **184**

Tanguay, R.M.
Purification of mRNA coding for the enzyme deficient in hereditary tyrosinemia, fumarylacetoacetate hydrolase
LOUIS M. NICOLE, JEAN-PAUL VALET, CLAUDE LABERGE, and ROBERT M. TANGUAY **489**

Further characterization of the posttranslational modifications of core histones in response to heat and arsenite stress in *Drosophila*
RICHARD DESROSIERS and ROBERT M. TANGUAY **750**

Cellular localization of *Drosophila* 83-kilodalton heat shock protein in normal, heat-shocked, and recovering cultured cells with a specific antibody
M.E. CARBAJAL, J.-L. DUBAND, F. LETTRE, J.-P. VALET, and R.M. TANGUAY **816**

Taylor, N.F.
L-Malate transport and proton symport in vesicles prepared from *Pseudomonas putida*
F.R. AGBANYO, G. MOSES, and N.F. TAYLOR **1190**

Taylor, T.
Synthesis and use of galactolipid sulfotransferase substrate–analogue affinity probes: possible localization of the testicular enzyme
CLIFFORD LINGWOOD and TRUDY TAYLOR **631**

Tessier, A.
Molecular cloning of stage specific mRNAs from amoebae and plasmodia of *Physarum polycephalum*
DOMINICK PALLOTTA, ANDRÉ LAROCHE, ANNE TESSIER, THOMAS SHINNICK, and GÉRALD LEMIEUX **1294**

Thakur, M.
Biochemical changes in progressive muscular dystrophy. XII. Cyclic nucleotides in lymphoid and nonlymphoid organs of dystrophic mice
MANOHAR THAKUR, MIKAEL SEBAG, and UMA SRIVASTAVA **1339**

Thiam-Sow, A.
Effect of glutaraldehyde on hemoglobin: functional aspects and Mössbauer parameters
DIDIER GUILLOCHON, MOKAMBES WARAN VIJAYALAKSHMI, ATSU THIAM-SOW, DANIEL THOMAS, and ALAIN CHEVALIER **29**

Thomas, D.
Effect of glutaraldehyde on hemoglobin: functional aspects and Mössbauer parameters
DIDIER GUILLOCHON, MOKAMBES WARAN VIJAYALAKSHMI, ATSU THIAM-SOW, DANIEL THOMAS, and ALAIN CHEVALIER **29**

Thompson, G.A., Jr.
Metabolism and control of lipid structure modification
GUY A. THOMPSON, JR. **66**

Thomson, J.A.
The quantitative comparison of the effects of denaturants on the stability of proteins
JAMES A. THOMSON and CHARLES C. BIGELOW **993**

Tinker, D.O.
Unsaturated fatty acids inhibit ADP-arachidonate-induced platelet aggregation without affecting thromboxane synthesis
ELLA DRATEWKA-KOS, D.O. TINKER, and BRIGITTE KINDL **906**

Tomlinson, G.
Photoinactivation of acetylcholinesterase by erythrosin B and related compounds
GEORGE TOMLINSON, MAXWELL D. CUMMINGS, and LARRY HRYSHKO **515**

Tong, M.-f.
Effect of different neutral phospholipids on apolipoprotein binding by artificial lipid particles *in vivo*
MING-FOR TONG and ARNIS KUKSIS **826**

Effect of acidic phospholipids on apolipoprotein binding by artificial lipid particles *in vivo*
MING-FOR TONG and ARNIS KUKSIS **836**

Toohey, J.I.
Persulfide sulfur is a growth factor for cells defective in sulfur metabolism
JOHN I. TOOHEY **758**

Tortolo, D.M.
Chemotaxis-associated properties of separated prestalk and prespore cells of *Dictyostelium discoideum*
J.D. MEE, D.M. TORTOLO, and M.B. COUKELL **722**

Trémblay, T.-L.
The so-called $tRNA_1^{Glu}$ of *Escherichia coli* is a stable denatured conformer of the major isoacceptor $tRNA_2^{Glu}$
THOMAS-LOUIS TREMBLAY and JACQUES LAPOINTE **315**

Treves, C.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
CRISTINA TREVES, MARIA TERESA VINCENZINI, PAOLO VANNI, TERESA IANTOMASI, MARIA STIO, and VINCENZO BACCARI **1310**

Trivedi, A.
Role of phospholipid fatty acids on the kinetics of high and low affinity sites of cytochrome *c* oxidase
A. TRIVEDI, D.J. FANTIN, and E. RENO TUSTANOFF **1195**

Tsui, W.-C.
Reaction of the anionic acetylation agent methyl acetyl phosphate with D-3-hydroxybutyrate dehydrogenase
RONALD KLUGER and WING-CHEONG TSUI **434**

Tustanoff, E.R.
Role of phospholipid fatty acids on the kinetics of high and low affinity sites of cytochrome *c* oxidase
A. TRIVEDI, D.J. FANTIN, and E. RENO TUSTANOFF **1195**

Vaisius, A.C.
A soluble biotinyl-α-amanitin affinity probe for the isolation of RNA polymerase B
A.C. VAISIUS and H. FAULSTICH **923**

Valet, J.-P.
Purification of mRNA coding for the enzyme deficient in hereditary tyrosinemia, fumarylacetoacetate hydrolase
LOUIS M. NICOLE, JEAN-PAUL VALET, CLAUDE LABERGE, and ROBERT M. TANGUAY **489**

Cellular localization of *Drosophila* 83-kilodalton heat shock protein in normal, heat-shocked, and recovering cultured cells with a specific antibody
M.E. CARBAJAL, J.-L. DUBAND, F. LETTRE, J.-P. VALET, and R.M. TANGUAY **816**

Vance, D.E.
Regulation of rat liver phosphatidylethanolamine *N*-methyltransferase by cytosolic factors. Examination of a role for reversible protein phosphorylation
STEVEN L. PELECH, NILAY OZEN, FRANÇOIS AUDUBERT, and DENNIS E. VANCE **565**

The supply of both CDP-choline and diacylglycerol can regulate the rate of phosphatidylcholine synthesis in HeLa cells
PETER LIM, ROSEMARY CORNELL, and DENNIS E. VANCE **692**

van Dijk, W.
Activity and secretion of sialyltransferase in primary monolayer cultures of rat hepatocytes cultured with and without dexamethasone
WILLEM VAN DIJK, WILLEM BOERS, MIEKE SALA, ANNE-MARIE LASTHUIS, and SAILEN MOOKERJEA **79**

Vanni, P.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
CRISTINA TREVES, MARIA TERESA VINCENZINI, PAOLO VANNI, TERESA IANTOMASI, MARIA STIO, and VINCENZO BACCARI **1310**

van Oost, B.A.
Isolation of a human von Willebrand factor cDNA from the hybrid endothelial cell line EA.hy926
BERNARD A. VAN OOST, CORA-JEAN S. EDGELL, COLIN W. HAY, and ROSS T.A. MACGILLIVRAY **699**

Venkatraman, J.T.
Interaction of steroids with the nuclear envelope
Y.A. LEFEBVRE, J.T. VENKATRAMAN, E.J. GOLSTEYN, and G.M. HOWELL **594**

Venkitasubramanian, T.A.
Ornithine transcarbamylase from *Mycobacterium smegmatis* ATCC 14468: purification, properties, and reaction mechanism
SUHAIL AHMAD, R.K. BHATNAGAR, and T.A. VENKITASUBRAMANIAN **1349**

Vijayalakshmi, M.W.
Effect of glutaraldehyde on hemoglobin: functional aspects and Mössbauer parameters
DIDIER GUILLOCHON, MOKAMBES WARAN VIJAYALAKSHMI, ATSU THIAM-SOW, DANIEL THOMAS, and ALAIN CHEVALIER **29**

Vilain, G.
Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **548**

Erratum: Rapid automated synthesis via diisopropyl phosphoramidite *in situ* activation. Chemical synthesis and cloning of a calmodulin gene
G. ALVARADO-URBINA, R. CHIARELLO, G. VILAIN, F. JURIK, L. CHRISTENSEN, C. CARMONA, L. FANG, and R. CREA **1382**

Vinay, P.
Use of dialysis fibers for the study of aerobic cells
YVAN BOULANGER and PATRICK VINAY **869**

Vincenzini, M.T.
Activities of NAD- and NADP-specific isocitrate dehydrogenases in kidney mitochondria of rachitic rat
CRISTINA TREVES, MARIA TERESA VINCENZINI, PAOLO VANNI, TERESA IANTOMASI, MARIA STIO, and VINCENZO BACCARI **1310**

Vlaovic, M.
UDP-*N*-acetylmuramoyl-L-alanyl-D-glutamyl-L-lysine synthetase from *Bacillus sphaericus*: activation by potassium phosphate
RASHID A. ANWAR and MARIANA VLAOVIC **297**

Wainwright, L.K.
Effects of some inhibitors of DNA synthesis and repair upon the cycle of serotonin *N*-acetyltransferase activity in cultured chick pineal glands
S.D. WAINWRIGHT and LILLIAN K. WAINWRIGHT **344**

Wainwright, S.D.
Effects of some inhibitors of DNA synthesis and repair upon the cycle of serotonin *N*-acetyltransferase activity in cultured chick pineal glands
S.D. WAINWRIGHT and LILLIAN K. WAINWRIGHT **344**

Walker, D.
Chemical and genetic comparison of the glucose and nucleoside transporters
AMIRA KLIP, DENISE WALKER, AMOS COHEN, and CHUNGYEE LEUNG **1170**

Changes in cytoplasmic free calcium caused by halothane. Role of the plasma membrance and intracellular Ca^{2+} stores
AMIRA KLIP, BEVERLY A. BRITT, M. ESTHER ELLIOTT, DENISE WALKER, TOOLSIE RAMLAL, and WILLIAM PEGG **1181**

Walker, P.
Thyroxine increases neonatal mouse submandibular gland mRNA-directed synthesis of epidermal growth factor
PETER WALKER **290**

Walsh, M.P.
Phosphorylation of skeletal and cardiac muscle C-proteins by the catalytic subunit of cAMP-dependent protein kinase
MEGAN S. LIM and MICHAEL P. WALSH **622**

Walton, P.A.
Translocation of Mg^{2+}-dependent phosphatidate phosphohydrolase between cytosol and endoplasmic reticulum in a permanent cell line from human lung
PAUL A. WALTON and FRED POSSMAYER **1135**

Wang, J.H.
Regulation of cAMP concentration by calmodulin-dependent cyclic nucleotide phosphodiesterase
RAJENDRA K. SHARMA and JERRY H. WANG **1072**

Warner, A.H.
Evidence for a defective thiol protease inhibitor in skeletal muscle of mice with hereditary muscular dystrophy
P. GOPALAN, M.J. DUFRESNE, and A.H. WARNER **1010**

Wasi, S.
Osteonectin is a minor component of mineralized connective tissues in rat
PAUL ZUNG, CARMELO DOMENICUCCI, SAHIA WASI, FUMIYUKI KUWATA, and JARO SODEK **356**

Weaver, B.J.
The relative degradation of [^{14}C]eicosapentaenoyl and [^{3}H]arachidonoyl species of phosphatidylinositol and phosphatidylcholine in thrombin-stimulated human platelets
BONNIE J. WEAVER and BRUCE J. HOLUB **1256**

Weeks, G.
The distribution of the stalk cell differentiation inducing factor and other lipids during the differentiation of *Dictyostelium discoideum*
NANCY NEAVE, LINDA KWONG, JAMES I.S. MACDONALD, and GERALD WEEKS **85**

Withers, S.G.
The purification and characterization of a β-glucosidase from *Alcaligenes faecalis*
ANTHONY G. DAY and STEPHEN G. WITHERS **914**

Wong, C.M.
A steryl glycoside fraction from *Momordica charantia* seeds with an inhibitory action on lipid metabolism *in vitro*
T.B. NG, C.M. WONG, W.W. LI, and H.W. YEUNG **766**

Wong, M.
The roles of cAMP and cAMP-dependent protein kinase in the regulation of adrenocortical functions: analysis using DNA-mediated gene transfer
MARGARET WONG, DONALEE O'BRIEN, and BERNARD P. SCHIMMER **1066**

Woolever, C.A.
Regulation of rabbit fetal glycogen: effect of *in utero* fetal decapitation on the metabolism of glycogen in fetal heart, lung, and liver
BHAGU R. BHAVNANI, C. ALLAN WOOLEVER, and CHEE CHUNG PAN **405**

Yaguchi, M.
The primary structure of the ribosomal A-protein (L12) from the moderate halophile NRCC 41227
PAUL FALKENBERG, MAKOTO YAGUCHI, CAMILLE ROY, MICHAEL ZUKER, and ALASTAIR T. MATHESON **675**

Yamada, M.
Purification and characterization of benzoyl-L-tyrosine ethyl ester hydrolase from the yolk sac membrane of chicken egg
YASUSHI SUGIMOTO and MASAHIRO YAMADA **543**

Yao, F.-L.
Hybrid gene synthesis: its application to the assembly of DNA sequences encoding the human parathyroid hormones and analogues
WING L. SUNG, DIANA M. ZAHAB, FEI-LONG YAO, and CHERK S. TAM **133**

Yatscoff, R.W.
Experimental approaches to the study of the biogenesis of mammalian mitochondrial proteins
KARL B. FREEMAN, RANDALL W. YATSCOFF, and ROBERT G. RIDLEY **1108**

Yeung, H.W.
A steryl glycoside fraction from *Momordica charantia* seeds with an inhibitory action on lipid metabolism *in vitro*
T.B. NG, C.M. WONG, W.W. LI, and H.W. YEUNG **766**

Young, M.
Effect of saturated phosphatidylcholines on the functional properties of reconstituted cytochrome oxidase
MICHAEL A. SINGER, MARIA DINDA, MARLENE YOUNG, and LEONARD FINEGOLD **91**

Zahab, D.M.
Hybrid gene synthesis: its application to the assembly of DNA sequences encoding the human parathyroid hormones and analogues
WING L. SUNG, DIANA M. ZAHAB, FEI-LONG YAO, and CHERK S. TAM **133**

Zboril, G.
Monoclonal antibodies to bovine and human acrosin
JOHN S. ELCE, ELISE J. GRAHAM, GIZELA ZBORIL, LISETTE LEYTON, ELCIRA PEREZ, HORATIO B. CROXATTO, and ALFREDO DE IOANNES **1242**

Ziola, B.
Synthesis of mitochondrial macromolecules in herpes simplex type 1 virus infected Vero cells
KAREN LUND and BARRY ZIOLA **1303**

Zuker, M.
The primary structure of the ribosomal A-protein (L12) from the moderate halophile NRCC 41227
PAUL FALKENBERG, MAKOTO YAGUCHI, CAMILLE ROY, MICHAEL ZUKER, and ALASTAIR T. MATHESON **675**

Zung, P.
Osteonectin is a minor component of mineralized connective tissues in rat
PAUL ZUNG, CARMELO DOMENICUCCI, SAFIA WASI, FUMIYUKI KUWATA, and JARO SODEK **356**

BIOCHEMISTRY AND CELL BIOLOGY/ BIOCHIMIE ET BIOLOGIE CELLULAIRE
VOLUME 64 (1986)
SUBJECT INDEX/INDEX DES MATIÈRES

Acetylatable lipoate acetyltransferase lipoamide dehydrogenase 250
Acetylation histone stress Drosophila 750
Acetylation hydroxybutyrate dehydrogenase inactivation 434
Acetylcholinesterase ecto inactivation concanavalin A muscle 1272
Acetylcholinesterase photoinactivation xanthene dye 515
Acetylneuraminate serotonin assocn correction 77
Acetyltransferase acetylatable lipoate lipoamide dehydrogenase 250
Acetyltransferase serotonin rhythm pineal DNA repair 344
Acholeplasma membrane lipid cell growth 58
Acid phosphatase prostate androgen 583
Acrosin monoclonal antibody 1242
Acrosin sperm purifn 1020
ACTH adrenal cAMP protein kinase 1066
Actin RNA polymerase B assocn 923
Active site histidine lipoamide dehydrogenase Escherichia 509
Acyl CoA synthetase inhibition amine protonation 962
Acylation lysophospholipid neuron cell nucleus 1
Adenovirus DNA transformation protein synthesis 256
Adenylate cyclase adipocyte membrane ob mouse 855
Adipocyte membrane adenylate cyclase ob mouse 855
Adipocyte membrane binding lipoprotein temp protease 1378
Adipose brown thermogenin cold nervous system 1125
Adrenal ACTH cAMP protein kinase 1066
Aerobic cell metab dialysis fiber 869
Alcaligenes beta glucosidase 914
Alfalfa Rhizobium symbiosis nitrogenase 556
Amanitin biotin deriv RNA polymerase purifn 923
Ameba plasmodia Physarum mRNA cloning 1294
Amine protonation acyl CoA synthetase inhibition 962
Amino terminal peptide liq chromatog 1226
Aminopeptidase dipeptidyl skin fibroblast 772
Anabaena PEP carboxylase 427
Androgen metab prostate culture 583
Androgen prostate growth review 608
Androgen zinc rat prostate gene 601
Animal mitochondria phospholipid origin transport review 1115
Anion hydroxide antiport cytochrome oxidase liposome 647
Anthranilate phosphoribosyltransferase mechanism Escherichia 681
Antibody LHRH recognition 1372
Antibody monoclonal acrosin 1242
Antibody monoclonal collagen Panagrellus cuticle 743
Antibody monoclonal cytochrome c isoform testis 1211
Antibody monoclonal polyadenosine diphosphoribose polymerase domain 368
Antibody monoclonal 44D7 antigen complex review 1160
Antibody phosphoenolpyruvate carboxylase sorghum 1234
Antibody triiodothyronine receptor 377
Antigen complex monoclonal antibody 44D7 review 1160
Antigen gene ELISA 73
Antigen Heymann nephritis kidney 441
Antigen O polysaccharide structure Escherichia 21
Antigenicity intestine mucin lipid 223
Antilipolytic saponin Momordica 766
Antiport anion hydroxide cytochrome oxidase liposome 647
Aorta diglyceride lipase kinase 976
Aorta elastin accumulation hypertension rat 38
Apolipoprotein a purifn characterization 999
Apolipoprotein plasma binding phospholipid particle 826 836
Apotransferrin conformation iron coordination 936
Arachidonate incorporation brain nucleus 962
Arachidonate incorporation lysophospholipid neuron nucleus 1
Arachidonate metab platelet thrombin 1256
Arginine histone cAMP phosphodiesterase II 930
Arsenite histone acetylation methylation Drosophila 750
Artemia microtubule protein development 238
Arylsulfatase A B kidney catecholamine sulfate 1044
ATP diphosphatase catalytic subunit photoaffinity labeling 13
ATPase ecto inactivation concanavalin A muscle 1272
ATPase myosin structure muscle contraction review 265
ATPase subunit arrangement thermophilic bacteria 229
Bacillus crystal protein peptide sepn 1226
Bacillus UDP acetylmuramoylalanylglutamyllysine synthetase activation 297
Bacteria thermophilic ATPase subunit arrangement 229
Bacteriophage M13 DNA sequence detn 70
Benzohydroxamate inhibition peroxidase sperm sea urchin 1333
Benzoyltyrosine ethyl ester hydrolase egg 543
Biochem research 1055
Biotin deriv amanitin RNA polymerase purifn 923
Bone osteonectin ontogeny 356
Brain cerebellum ouabainlike factor 1049
Brain microsome lysopolyphosphoinositide metab 117
Brain nucleus arachidonate incorporation buffer pH 962
Brassica crown gall opine synthase detection 126
Brine shrimp tubulin assembly characterization 238
Brown adipose thermogenin cold nervous system 1125
Brush border intestine cholesterol transfer liposome 575
Buffer arachidonate incorporation nucleus brain 962
Calcium cAMP calmodulin phosphodiesterase review 1072
Calcium cytoplasm lymphocyte halothane malignant hyperthermia 1181
Calcium Dictyostelium cell fusion 1281
Calcium sodium exchanger 44D7 antigen review 1160
Calcium thermolysin domain conformation 953
Calmodulin cyclic nucleotide phosphodiesterase cAMP review 1072
Calmodulin gene synthesis diisopropylphosphoramidite cloning 548
Calmodulin gene synthesis diisopropylphosphoramidite cloning correction 1382
cAMP ACTH adrenal protein kinase 1066
cAMP C protein phosphorylation kinase muscle 622
cAMP calmodulin cyclic nucleotide phosphodiesterase review 1072
cAMP phosphodiesterase II muscle polyarginine 930
Capsular polysaccharide Haemophilus mol structure 707
Carbodiimide conjugation hippuric acid concanavalin A 1366
Carbonate apotransferrin conformation iron coordination 936
Carboxykinase phosphoenolpyruvate Veillonela 898
Carboxyl enolase yeast conformation magnesium 970
Carboxylase PEP Anabaena 427
Carboxylase phosphoenolpyruvate sorghum 1234

Carboxymethylhydroxymuconate semialdehyde dehydrogenase Pseudomonas 1288
Catalase HPII Escherichia 638
Catecholamine protein phosphorylation cAMP muscle 622
Catecholamine sulfate arylsulfatase A B kidney 1044
Cathepsin B inhibition proteinase inhibitor neoplasm 1218
Cation membrane aggregation smooth muscle 535
cDNA von Willebrand factor human 699
CDP choline diacylglycerol phosphatidylcholine formation HeLa 692
CDP diglyceride microsome phosphatidylglycerol mitochondria 309
Cell aerobic metab dialysis fiber 869
Cell fusion Dicytostelium calcium 1281
Cell growth Acholeplasma membrane lipid 58
Cell growth persulfide sulfur 758
Cell membrane aggregation cation smooth muscle 535
Cell membrane phase partition 448
Cell staining lectin artifact 1326
Cell stalk differentiation Dictyostelium 85
Ceramidase heterogeneity organ rat 400
Cerebellum brain ouabainlike factor 1049
Cerebroside mitochondria metab Gaucher Krabbe 485
cGMP binding protein phosphodiesterase Dictyostelium 528
Channel glucose choline transport erythrocyte 1099
Chemotaxis Dictyostelium prestalk prespore cell 722
Cholesterol transfer liposome intestine brush border 575
Cholesterol transport intestine phosphlipid micelle 847
Choline transport channel erythrocyte 1099
Choriocarcinoma differentiation methotrexate hypoxanthine 811
Chromatin nucleosome structure histone H1 463
Chromatin protein accessibility polyADP ribose glycohydrolase 146
Chromatog liq amino terminal peptide 1226
Chymotrypsin like proteinase egg yolk sac 543
Citraconylation protein peptide HPLC 1226
Citrate apotransferrin conformation iron coordination 936
Cloning calmodulin gene synthesis 548
Cloning histone H3 gene human 277
Cloning human parathyroid hormone gene 133
Cloning mRNA Physarum ameba plasmodia 1294
Cod protease stomach 215
Cod stomach proteinase heterogeneity 205
Cold nervous system brown adipose thermogenin 1125
Collagen monoclonal antibody Panagrellus cuticle 743
Concanavalin A conjugation hippuric acid carbodiimide 1366
Concanavalin A inactivation ectoenzyme muscle 1272
Conformation apotransferrin iron coordination 936
Conformation cAMP phosphodiesterase II polyanion 930
Conformation enolase yeast magnesium 970
Conformation glutamate tRNA isoacceptor Escherichia 315
Conformation thermolysin domain calcium 953
Conjugation hippuric acid concanavalin A carbodiimide 1366
Coordination iron apotransferrin conformation 936
Correction calmodulin gene synthesis diisopropylphosphoramidite cloning 1382
Correction mercury kidney mRNA translatability 161
Correction protein Em property wheat 264
Correction serotonin acetylneuraminate assocn 77
Crosslinking Hb glutaraldehyde 29
Crosslinking protein sulfhydryl group electrophoresis 154
Crown gall Brassica opine synthase detection 126
Crystal protein Bacillus peptide sepn 1226
Culture hepatocyte EGF insulin receptor 803
Culture lymphoma Nb rat hormone review 659
Cuticle Panagrellus collagen monoclonal antibody 743
Cyanobacteria phosphoenolpyruvate carboxylase 427
Cyclase adenylate adipocyte membrane ob mouse 855
Cyclic nucleotide organ muscular dystrophy 1339
Cyclic nucleotide phosphodiesterase calmodulin cAMP review 1072
Cytochrome c isoform testis species heterogeneity 1211
Cytochrome oxidase interaction phospholipid fatty acid 1195
Cytochrome oxidase liposome triorgonotin 647
Cytochrome oxidase reconstitution phosphatidylcholine liposome 91
Cytochrome P450 reductase NADPH placenta 184
Cytokeratin liver epithelium origin 788
Cytoplasm lymphocyte calcium halothane malignant hyperthermia 1181
Cytoskeleton fluorescent staining lectin artifact 1326
Cytosol endoplasmic reticulum phosphatidate phosphohydrolase 1135
Cytosol regulation phosphatidylethanolamine methyltransferase liver 565
Decarboxylase ornithine lymphoma prolactin 381
Decarboxylase ornithine Mycobacterium 1349
Dehydrogenase carboxymethylhydroxymuconate semialdehyde Pseudomonas 1288
Dehydrogenase hydroxybutyrate methyl acetyl phosphate 434
Dehydrogenase isocitrate kidney vitamin D deficiency 1310
Dehydrogenase lipoamide acetyltransferase acetylatable lipoate 250
Dehydrogenase lipoamide active site histidine Escherichia 509
Denaturant stability RNase A detn 993
Denitrification photosynthesis Rhodopseudomonas proton motive force 328
Detergent extn cell lectin staining 1326
Development Artemia microtubule protein 238
Development sorghum phosphoenolpyruvate carboxylase 1234
Dexamethasone sialyltranferase rat hepatocyte 79
Diacylglycerol CDP choline phosphatidylcholine formation HeLa 692
Dialysis fiber aerobic cell metab 869
Dictyostelium cGMP binding protein phosphodiesterase 528
Dictyostelium differentiation inducing factor lipid 85
Dictyostelium prestalk prespore cell chemotaxis 722
Dicytostelium cell fusion calcium 1281
Differentiation inducing factor lipid Dictyostelium 85
Digitalislike factor brain cerebellum 1049
Diglyceride CDP microsome phosphatidylglycerol mitochondria 309
Diglyceride lipase kinase aorta heart microvessel 976
Diisopropylphosphoramidite calmodulin gene synthesis 548
Dipeptidyl aminopeptidase skin fibroblast 772
Diphosphatase ATP catalytic subunit photoaffinity labeling 13
DNA adeno virus neoplastic transformation 256
DNA formation histone mRNA stability 99
DNA protein interaction nuclear matrix 474
DNA repair serotonin acetyltransferase rhythm pineal 344
DNA sequence detn chem 70
DNA Tipula iridescent virus 495
Dolichol long term metab distribution 886
Drosophila heat shock protein localization 816
Drosophila histone acetylation methylation stress 750
Dye xanthene acetylcholinesterase photoinactivation 515
Dynorphin stomach 733
Dystrophy muscle thiol protease inhibitor defect 1010
Dystrophy muscular cyclic nucleotide organ 1339
Ectoenzyme inactivation concanavalin A muscle 1272
EGF mRNA submandibular thyroxine 290
EGF receptor hepatocyte culture 803
Egg yolk sac chymotrypsin like proteinase 543
Eicosapentaenoate metab platelet thrombin 1256
Elastin accumulation hypertension aorta rat 38
Electron freeze etch microscopy myoblast 194
Electrophoresis sulfhydryl group detn 154
ELISA gene clone bank screening 73
Endocrine system organ glycogen fetus 405

Endodeoxyribonuclease immunochem Neurospora 106
Endoplasmic reticulum phosphatidate phosphohydrolase cytosol 1135
Endothelium von Willebrand factor gene human 699
Enhancer SV40 virus gene expression 277
Enkephalin stomach 733
Enolase yeast carboxyl conformation magnesium 970
Envelope nucleus steroid review 594
Enzyme protein bound oligosaccharide review 163
Enzyme transport permeability membrane A 58
Epicotyl plasmalemma pea purifn 448
Epithelium liver origin cytokeratin vimentin 788
Epithelium stroma prostate growth review 608
Erythrocyte band 4 glucose nucleoside transporter 1170
Erythrocyte glucose choline transport channel 1099
Erythrosin B acetylcholinesterase photoinactivation 515
Escherichia anthranilate phosphoribosyltransferase mechanism 681
Escherichia catalase HPII 638
Escherichia glutamate tRNA isoacceptor conformation 315
Escherichia lipoamide dehydrogenase active site histidine 509
Escherichia O antigen polysaccharide structure 21
Escherichia pyruvate dehydrogenase acetylatable lipoate 250
ESR nitrite reductase Vibrio 394
Evolution protein A ribosome sequence halophile 675
Exchanger calcium sodium 44D7 antigen review 1160
Extn cell detergent lectin staining 1326
Extracellular nuclease pollen 891
Fatty acid phospholipid interaction cytochrome oxidase 1195
Fatty acid unsatd platelet aggregation 906
Fatty acyl acceptor protein heart 1249
Fertilization polyspermy prevention sea urchin peroxidase 1333
Fetus organ glycogen endocrine system 405
Fiber dialysis aerobic cell metab 869
Fibroblast gingiva gelatinase 387
Fibroblast skin dipeptidyl aminopeptidase 772
Fluorescent staining lectin cytoskeleton artifact 1326
Fluorog nopaline octopine synthase detection 126
Folate polyglutamate formation review 667
Folate polyglutamate neoplasm methotrexate 363
Folylpolyglutamate hydrolase neoplasm methotrexate 363
Folylpolyglutamate synthetase liver review 667
Force protonmotive Rhodopseudomonas photosynthesis denitrification 328
Formaldehyde fixation cell lectin staining 1326
Freeze etch electron microscopy myoblast 194
Fumarylacetoacetate hydrolase mRNA rat 489
Gadus protease stomach 215
Galactolipid sulfotransferase testis psychosine deriv 631
Galactosidase beta iodination tyrosine modification 523
Gaucher mitochondria metab cerebroside psychosine 485
Gelatinase fibroblast gingiva 387
Gene calmodulin synthesis diisopropylphosphoramidite cloning 548
Gene clone bank screening ELISA 73
Gene expression protein formation Physarum spherulation 337
Gene histone H3 sequence cloning human 277
Gene human parathyroid hormone synthesis cloning 133
Gene rat prostate androgen zinc 601
Gene RPO31 RNA polymerase subunit Saccharomyces 717
Gene von Willebrand factor human endothelium 699
Germin compartmentation wheat embryo 1025
Gingiva fibroblast gelatinase 387
Glucoamylase maltase hydrophobic binding domain intestine 782
Glucose choline transport channel erythrocyte 1099
Glucose metab cell dialysis fiber 869
Glucose nucleoside transporter erythrocyte band 4 1170
Glucose transport proximal tubule review 1092
Glucosidase beta Alcaligenes 914
Glucosidase beta immobilized flow kinetics 139
Glutamate poly microtubule assembly tau factor 615
Glutamate tRNA isoacceptor conformation Escherichia 315
Glutaraldehyde Hb crosslinking 29
Glycogen organ fetus endocrine system 405
Glycohydrolase polyadenosine diphosphoribose substrate accessibility 146
Glycoprotein band 4 glucose nucleoside transporter 1170
Glycosidation proopiomelanocortin processing pituitary 1262
Glycoside steryl Momordica lipid metab inhibition 766
Growth hormone lymphoma ornithine decarboxylase 381
Growth prostate stroma epithelium review 608
GTP hydrolysis rhodopsin G signal light 304
Guanine nucleotide adenylate cyclase ob mouse 855
Haemophilus capsular polysaccharide mol structure 707
Haemophilus lipopolysaccharide O chain 1317
Halophile ribosome protein A evolution sequence 675
Halothane malignant hyperthermia calcium cytoplasm lymphocyte 1181
Hb crosslinking glutaraldehyde 29
Heart C protein phosphorylation cAMP kinase 622
Heart fatty acyl acceptor protein 1249
Heart glycogen fetus endocrine system 405
Heart microvessel diglyceride lipase kinase 976
Heart phosphatidylcholine formation stearate 413
Heart stress protein formation 418
Heat histone acetylation methylation Drosophila 750
Heat mRNA translation specificity 504
Heat shock protein localization Drosophila 816
HeLa phosphatidylcholine formation CDP choline diacylglycerol 692
Hemagglutinating activity ligand binding concanavalin A 1366
Heme c nitrite reductase Vibrio 394
Hepatic metallothionein maternal mineral deficiency 8
Hepatocyte culture EGF insulin receptor 803
Hepatocyte sialyltranferase dexamethasone rat 79
Herpes 1 virus infection mitochondria macromol 1303
Hexose transport myoblast review 1081
Heymann nephritis antigen kidney 441
High density lipoprotein binding adipocyte 1378
Hippuric acid conjugation concanavalin A carbodiimide 1366
Histidine lipoamide dehydrogenase active site Escherichia 509
Histone acetylation methylation stress Drosophila 750
Histone arginine cAMP phosphodiesterase II 930
Histone H1 nucleosome chromatin structure 463
Histone H3 gene sequence cloning human 277
Histone mRNA stability polysome myoblast 99
Hormone lymphoma culture Nb rat review 659
Hormone parathyroid gene human synthesis cloning 133
HPLC peptide sepn protein hydrolyzate 1226
Human parathyroid hormone gene synthesis cloning 133
Human von Willebrand factor cDNA 699
Hydrogen bond lipid modification membrane review 50
Hydrolase benzoyltyrosine ethyl ester egg 543
Hydrolase folylpolyglutamate neoplasm methotrexate 363
Hydrolase fumarylacetoacetate mRNA rat 489
Hydroxide anion antiport cytochrome oxidase liposome 647
Hydroxybutyrate dehydrogenase methyl acetyl phosphate 434
Hypertension elastin accumulation aorta rat 38
Hyperthermia malignant halothane calcium cytoplasm lymphocyte 1181
Hypoxanthine choriocarcinoma differentiation methotrexate 811
Immobilized beta glucosidase flow kinetics 139
Immunochem nuclease Neurospora 106
Inducing factor differentiation lipid Dictyostelium 85
Infection herpes 1 virus mitochondria macromol 1303
Insulin liver triglyceride lipase 1147
Insulin receptor hepatocyte culture 803
Intestine brush border cholesterol transfer liposome 575

Intestine cholesterol transport phosphlipid micelle 847
Intestine maltase glucoamylase hydrophobic binding domain 782
Intestine mucin lipid antigenicity 223
Iodination beta galactosidase tyrosine modification 523
Iron coordination apotransferrin conformation 936
Isocitrate dehydrogenase kidney vitamin D deficiency 1310
Kidney arylsulfatase A B catecholamine sulfate 1044
Kidney glucose transport review 1092
Kidney Heymann nephritis antigen 441
Kidney isocitrate dehydrogenase vitamin D deficiency 1310
Kidney mRNA translatability mercury correction 161
Kidney tubule metab perifusion NMR 869
Kinase C protein phosphorylation cAMP muscle 622
Kinase diglyceride lipase heart microvessel 976
Kinase protein ACTH adrenal cAMP 1066
Krabbe mitochondria metab cerebroside psychosine 485
Lamin interaction DNA nuclear matrix 474
Lectin staining cytoskeleton artifact 1326
Leukocyte polymorphonuclear lysozyme release lithium 880
LHRH antibody recognition 1372
Ligand binding cell lectin staining 1326
Ligand binding hemagglutinating activity concanavalin A 1366
Light rhodopsin GTP hydrolysis G signal 304
Lipase diglyceride aorta heart microvessel 976
Lipase triglyceride liver insulin phenobarbital 1147
Lipid Dictyostelium differentiation inducing factor 85
Lipid formation neuron nucleus arachidonate 962
Lipid membrane Acholeplasma cell growth 58
Lipid metab inhibition Momordica steryl glycoside 766
Lipid modification hydrogen bond membrane review 50
Lipid modification phase transition review 44
Lipid mucin intestine antigenicity 223
Lipid structure modification membrane review 66
Lipoamide dehydrogenase acetyltransferase acetylatable lipoate 250
Lipoamide dehydrogenase active site histidine Escherichia 509
Lipoate acetylatable acetyltransferase lipoamide dehydroge= nase 250
Lipopolysaccharide O chain Haemophilus 1317
Lipoprotein apo a purifn characterization 999
Lipoprotein membrane binding adipocyte temp protease 1378
Liposome cholesterol transfer intestine brush border 575
Liposome cytochrome oxidase triorgonotin 647
Liposome phosphatidylcholine cytochrome oxidase reconsti= tution 91
Liq chromatog amino terminal peptide 1226
Lithium enzyme release polymorphonuclear leukocyte 880
Liver dolichol metab 886
Liver epithelium origin cytokeratin vimentin 788
Liver folylpolyglutamate synthetase review 667
Liver glycogen fetus endocrine system 405
Liver microsome lysopolyphosphoinositide metab 117
Liver nucleus triiodothyronine receptor antibody 377
Liver phosphatidylethanolamine methyltransferase regula= tion cytosol 565
Liver retinyl monophosphate phosphatase 864
Liver triglyceride lipase insulin phenobarbital 1147
Low density lipoprotein binding adipocyte 1378
Lung glycogen fetus endocrine system 405
Lung phosphatidate phosphohydrolase translocation oleate 1135
Lymphocyte cytoplasm calcium halothane malignant hy= perthermia 1181
Lymphoid organ cyclic nucleotide muscular dystrophy 1339
Lymphoma cell growth persulfide sulfur 758
Lymphoma culture Nb rat hormone review 659
Lymphoma ornithine decarboxylase prolactin 381
Lysine trimethyl dioxalate 182
Lysogalactosylceramide deriv galactolipid sulfotransferase testis 631
Lysophosphatidylcholine acylation neuron nucleus 1
Lysophosphatidylinositol acylation neuron nucleus 1
Lysophospholipid acylation neuron cell nucleus 1
Lysopolyphosphoinositide metab microsome brain liver 117
Lysozyme release polymorphonuclear leukocyte lithium 880
Macroglobulin inhibition cathepsin B proteinase neoplasm 1218
Macromol mitochondria herpes 1 virus infection 1303
Magnesium adenylate cyclase ob mouse 855
Magnesium enolase yeast conformation 970
Malate transport Pseudomonas 1190
Malignant hyperthermia halothane calcium cytoplasm lymphocyte 1181
Maltase glucoamylase hydrophobic binding domain intestine 782
Maternal mineral deficiency hepatic metallothionein 8
Measles virus matrix protein gene cloning 1038
Membrane adipocyte adenylate cyclase ob mouse 855
Membrane aggregation cation smooth muscle 535
Membrane binding lipoprotein temp protease adipocyte 1378
Membrane cell phase partition 448
Membrane lipid cell growth Acholeplasma 58
Membrane lipid modification review 50
Membrane lipid structure mesomorphism review 44
Membrane lipid structure modification review 66
Membrane potential cytochrome oxidase triorganotin 647
Membrane protein zymogen granule 456
Mercury kidney mRNA translatability correction 161
Mesomorphism lipid structure membrane review 44
Metallothionein hepatic maternal mineral deficiency 8
Methotrexate choriocarcinoma differentiation hypoxanthine 811
Methotrexate folate polyglutamate folylpolyglutamate hydrolase neoplasm 363
Methyl acetyl phosphate hydroxybutyrate dehydrogenase 434
Methylation histone stress Drosophila 750
Methyllysine dioxalate 182
Methyltransferase phosphatidylethanolamine liver regulation cytosol 565
Micelle phosphlipid cholesterol transport intestine 847
Microscopy fluorescence lectin staining 1326
Microscopy freeze etch electron myoblast 194
Microsome CDP diglyceride phosphatidylglycerol mito= chondria 309
Microsome lysopolyphosphoinositide metab brain liver 117
Microtubule assembly polyglutamate microtubule assocd protein 615
Microtubule protein assembly characterization 238
Microvessel heart diglyceride lipase kinase 976
Mineral deficiency maternal hepatic metallothionein 8
Mineralized tissue osteonectin ontogeny 356
Mitochondria kidney isocitrate dehydrogenase rickets 1310
Mitochondria macromol herpes 1 virus infection 1303
Mitochondria metab cerebroside psychosine Gaucher Krab= be 485
Mitochondria phosphatidylglycerol CDP diglyceride micro= some 309
Mitochondria phospholipid origin transport animal review 1115
Mitochondria protein formation review 1108
Mitochondria thermogenin adipose nervous system 1125
Mol structure capsular polysaccharide Haemophilus 707
Momordica steryl glycoside lipid metab inhibition 766
Monoclonal antibody acrosin 1242
Monoclonal antibody collagen Panagrellus cuticle 743
Monoclonal antibody cytochrome c isoform testis 1211
Monoclonal antibody polyadenosine diphosphoribose polym= erase domain 368
Monoclonal antibody 44D7 antigen complex review 1160
Mouse ob adenylate cyclase adipocyte membrane 855
mRNA EGF submandibular thyroxine 290
mRNA fumarylacetoacetate hydrolase rat 489

mRNA histone stability polysome myoblast 99
mRNA Physarum ameba plasmodia cloning 1294
mRNA translation specificity heat 504
Mucin intestine lipid antigenicity 223
Muscle C protein phosphorylation cAMP kinase 622
Muscle contraction myosin ATPase structure review 265
Muscle dystrophy thiol protease inhibitor defect 1010
Muscle ectoenzyme inactivation concanavalin A 1272
Muscle smooth membrane aggregation cation 535
Muscular dystrophy cyclic nucleotide organ 1339
Mycobacterium ornithine decarboxylase 1349
Myeloma RNA polymerase B subunit compn 923
Myoblast freeze etch electron microscopy 194
Myoblast hexose transport review 1081
Myoblast polysome histone mRNA stability 99
Myosin ATPase structure muscle contraction review 265
NADH oxidn peroxidase compd I II 323
NADPH cytochrome P450 reductase placenta 184
Nb rat lymphoma culture hormone review 659
Neoplasm cathepsin B inhibition proteinase inhibitor 1218
Neoplasm folate polyglutamate folylpolyglutamate hydrolase methotrexate 363
Neoplastic transformation DNA adeno virus 256
Nephritis Heymann antigen kidney 441
Nerve growth factor sodium channel pheochromocytoma 1153
Nervous system brown adipose thermogenin cold 1125
Neuron cell nucleus lysophospholipid acylation 1
Neuron nucleus arachidonate incorporation 962
Neurospora nuclease immunochem 106
Nitrite reductase intermediate Vibrio 394
Nitrogenase alfalfa Rhizobium symbiosis 556
Nitrosyl deriv nitrite reductase 394
NMR aerobic cell metab detn 869
Nopaline synthase detection fluorog 126
Nuclear matrix protein DNA interaction 474
Nuclease extracellular pollen 891
Nuclease immunochem Neurospora 106
Nucleoside glucose transporter erythrocyte band 4 1170
Nucleosome chromatin structure histone H1 463
Nucleotide cyclic organ muscular dystrophy 1339
Nucleus brain arachidonate incorporation buffer pH 962
Nucleus envelope steroid review 594
Nucleus lysophospholipid acylation neuron 1
Nucleus triiodothyronine receptor antibody liver 377
Ob mouse adenylate cyclase adipocyte membrane 855
Obesity adenylate cyclase adipocyte ob mouse 855
Octopine synthase detection fluorog 126
Oleate incorporation lysophospholipid neuron nucleus 1
Oleate phosphatidate phosphohydrolase lung translocation 1135
Oligosaccharide protein bound enzyme review 163
Ontogeny osteonectin mineralized tissue 356
Opine synthase detection Brassica crown gall 126
Opioid peptide stomach 733
Organ cyclic nucleotide muscular dystrophy 1339
Organ glycogen fetus endocrine system 405
Organ rat ceramidase heterogeneity 400
Ornithine decarboxylase lymphoma prolactin 381
Ornithine decarboxylase Mycobacterium 1349
Osteonectin mineralized tissue ontogeny 356
Ouabainlike factor brain cerebellum 1049
Oxidase cytochrome interaction phospholipid fatty acid 1195
Oxidase cytochrome liposome triorgonotin 647
Oxidase cytochrome reconstitution phosphatidylcholine liposome 91
Panagrellus cuticle collagen monoclonal antibody 743
Parathyroid hormone gene human synthesis cloning 133
Partition phase cell membrane 448
Pea epicotyl plasmalemma purifn 448
PEP carboxylase Anabaena 427
Peptide opioid stomach 733
Peptide sepn HPLC protein hydrolyzate 1226
Perifusion aerobic cell metab detn 869
Permeability membrane enzyme transport A choleplasma 58
Peroxidase compd I II NADH oxidn 323
Peroxidase inhibition sperm sea urchin 1333
Persulfide sulfur lymphoma cell growth 758
pH arachidonate incorporation nucleus brain 962
Phase partition cell membrane 448
Phase transition lipid modification review 44
Phenobarbital liver triglyceride lipase 1147
Phenobarbital modulation preadipocyte differentiation 1141
Phenylhydrazine inhibition peroxidase sperm sea urchin 1333
Pheochromocytoma sodium channel nerve growth factor 1153
Phosphatase acid prostate androgen 583
Phosphatase retinyl monophosphate liver 864
Phosphate activation UDP acetylmuramoylalanylglutamyllysine synthetase 297
Phosphatidate phosphohydrolase lung translocation oleate 1135
Phosphatidylcholine formation heart stearate 413
Phosphatidylcholine formation HeLa CDP choline diacylglycerol 692
Phosphatidylcholine liposome cytochrome oxidase reconstitution 91
Phosphatidylcholine metab platelet thrombin 1256
Phosphatidylethanolamine methyltransferase liver regulation cytosol 565
Phosphatidylglycerol mitochondria CDP diglyceride microsome 309
Phosphatidylinositol metab platelet thrombin 1256
Phosphlipid micelle cholesterol transport intestine 847
Phosphodiesterase cAMP II muscle polyarginine 930
Phosphodiesterase cGMP binding protein Dictyostelium 528
Phosphodiesterase cyclic nucleotide calmodulin cAMP review 1072
Phosphoenolpyruvate carboxykinase Veillonela 898
Phosphoenolpyruvate carboxylase cyanobacteria 427
Phosphoenolpyruvate carboxylase sorghum 1234
Phosphohydrolase phosphatidate lung translocation oleate 1135
Phosphoinositide metab microsome brain liver 117
Phospholipid fatty acid interaction cytochrome oxidase 1195
Phospholipid mitochondria CDP diglyceride microsome 309
Phospholipid origin transport mitochondria animal review 1115
Phospholipid particle binding plasma apolipoprotein 826 836
Phosphoribosyltransferase anthranilate mechanism Escherichia 681
Phosphorylation C protein cAMP kinase muscle 622
Phosphorylation proopiomelanocortin processing pituitary 1262
Photoaffinity labeling ATP diphosphatase catalytic subunit 13
Photoinactivation acetylcholinesterase xanthene dye 515
Photosynthesis denitrification Rhodopseudomonas protonmotive force 328
Physarum mRNA ameba plasmodia cloning 1294
Physarum spherulation protein formation 337
Pineal serotonin acetyltransferase rhythm DNA repair 344
Pituitary proopiomelanocortin posttranslational modification 1262
Pituitary proopiomelanocortin processing proteinase specificity 1356
Placenta NADPH cytochrome P450 reductase 184
Plasma apolipoprotein binding phospholipid particle 826 836
Plasmalemma pea epicotyl purifn 448
Plasmodia ameba Physarum mRNA cloning 1294
Platelet aggregation unsatd fatty acid 906
Platelet eicosapentaenoate arachidonate metab thrombin 1256
Pollen extracellular nuclease 891

Intestine cholesterol transport phosphlipid micelle 847
Intestine maltase glucoamylase hydrophobic binding domain 782
Intestine mucin lipid antigenicity 223
Iodination beta galactosidase tyrosine modification 523
Iron coordination apotransferrin conformation 936
Isocitrate dehydrogenase kidney vitamin D deficiency 1310
Kidney arylsulfatase A B catecholamine sulfate 1044
Kidney glucose transport review 1092
Kidney Heymann nephritis antigen 441
Kidney isocitrate dehydrogenase vitamin D deficiency 1310
Kidney mRNA translatability mercury correction 161
Kidney tubule metab perifusion NMR 869
Kinase C protein phosphorylation cAMP muscle 622
Kinase diglyceride lipase heart microvessel 976
Kinase protein ACTH adrenal cAMP 1066
Krabbe mitochondria metab cerebroside psychosine 485
Lamin interaction DNA nuclear matrix 474
Lectin staining cytoskeleton artifact 1326
Leukocyte polymorphonuclear lysozyme release lithium 880
LHRH antibody recognition 1372
Ligand binding cell lectin staining 1326
Ligand binding hemagglutinating activity concanavalin A 1366
Light rhodopsin GTP hydrolysis G signal 304
Lipase diglyceride aorta heart microvessel 976
Lipase triglyceride liver insulin phenobarbital 1147
Lipid Dictyostelium differentiation inducing factor 85
Lipid formation neuron nucleus arachidonate 962
Lipid membrane Acholeplasma cell growth 58
Lipid metab inhibition Momordica steryl glycoside 766
Lipid modification hydrogen bond membrane review 50
Lipid modification phase transition review 44
Lipid mucin intestine antigenicity 223
Lipid structure modification membrane review 66
Lipoamide dehydrogenase acetyltransferase acetylatable lipoate 250
Lipoamide dehydrogenase active site histidine Escherichia 509
Lipoate acetylatable acetyltransferase lipoamide dehydrogenase 250
Lipopolysaccharide O chain Haemophilus 1317
Lipoprotein apo a purifn characterization 999
Lipoprotein membrane binding adipocyte temp protease 1378
Liposome cholesterol transfer intestine brush border 575
Liposome cytochrome oxidase triorgonotin 647
Liposome phosphatidylcholine cytochrome oxidase reconstitution 91
Liq chromatog amino terminal peptide 1226
Lithium enzyme release polymorphonuclear leukocyte 880
Liver dolichol metab 886
Liver epithelium origin cytokeratin vimentin 788
Liver folylpolyglutamate synthetase review 667
Liver glycogen fetus endocrine system 405
Liver microsome lysopolyphosphoinositide metab 117
Liver nucleus triiodothyronine receptor antibody 377
Liver phosphatidylethanolamine methyltransferase regulation cytosol 565
Liver retinyl monophosphate phosphatase 864
Liver triglyceride lipase insulin phenobarbital 1147
Low density lipoprotein binding adipocyte 1378
Lung glycogen fetus endocrine system 405
Lung phosphatidate phosphohydrolase translocation oleate 1135
Lymphocyte cytoplasm calcium halothane malignant hyperthermia 1181
Lymphoid organ cyclic nucleotide muscular dystrophy 1339
Lymphoma cell growth persulfide sulfur 758
Lymphoma culture Nb rat hormone review 659
Lymphoma ornithine decarboxylase prolactin 381
Lysine trimethyl dioxalate 182
Lysogalactosylceramide deriv galactolipid sulfotransferase testis 631
Lysophosphatidylcholine acylation neuron nucleus 1
Lysophosphatidylinositol acylation neuron nucleus 1
Lysophospholipid acylation neuron cell nucleus 1
Lysopolyphosphoinositide metab microsome brain liver 117
Lysozyme release polymorphonuclear leukocyte lithium 880
Macroglobulin inhibition cathepsin B proteinase neoplasm 1218
Macromol mitochondria herpes 1 virus infection 1303
Magnesium adenylate cyclase ob mouse 855
Magnesium enolase yeast conformation 970
Malate transport Pseudomonas 1190
Malignant hyperthermia halothane calcium cytoplasm lymphocyte 1181
Maltase glucoamylase hydrophobic binding domain intestine 782
Maternal mineral deficiency hepatic metallothionein 8
Measles virus matrix protein gene cloning 1038
Membrane adipocyte adenylate cyclase ob mouse 855
Membrane aggregation cation smooth muscle 535
Membrane binding lipoprotein temp protease adipocyte 1378
Membrane cell phase partition 448
Membrane lipid cell growth Acholeplasma 58
Membrane lipid modification review 50
Membrane lipid structure mesomorphism review 44
Membrane lipid structure modification review 66
Membrane potential cytochrome oxidase triorganotin 647
Membrane protein zymogen granule 456
Mercury kidney mRNA translatability correction 161
Mesomorphism lipid structure membrane review 44
Metallothionein hepatic maternal mineral deficiency 8
Methotrexate choriocarcinoma differentiation hypoxanthine 811
Methotrexate folate polyglutamate folylpolyglutamate hydrolase neoplasm 363
Methyl acetyl phosphate hydroxybutyrate dehydrogenase 434
Methylation histone stress Drosophila 750
Methyllysine dioxalate 182
Methyltransferase phosphatidylethanolamine liver regulation cytosol 565
Micelle phosphlipid cholesterol transport intestine 847
Microscopy fluorescence lectin staining 1326
Microscopy freeze etch electron myoblast 194
Microsome CDP diglyceride phosphatidylglycerol mitochondria 309
Microsome lysopolyphosphoinositide metab brain liver 117
Microtubule assembly polyglutamate microtubule assocd protein 615
Microtubule protein assembly characterization 238
Microvessel heart diglyceride lipase kinase 976
Mineral deficiency maternal hepatic metallothionein 8
Mineralized tissue osteonectin ontogeny 356
Mitochondria kidney isocitrate dehydrogenase rickets 1310
Mitochondria macromol herpes 1 virus infection 1303
Mitochondria metab cerebroside psychosine Gaucher Krabbe 485
Mitochondria phosphatidylglycerol CDP diglyceride microsome 309
Mitochondria phospholipid origin transport animal review 1115
Mitochondria protein formation review 1108
Mitochondria thermogenin adipose nervous system 1125
Mol structure capsular polysaccharide Haemophilus 707
Momordica steryl glycoside lipid metab inhibition 766
Monoclonal antibody acrosin 1242
Monoclonal antibody collagen Panagrellus cuticle 743
Monoclonal antibody cytochrome c isoform testis 1211
Monoclonal antibody polyadenosine diphosphoribose polymerase domain 368
Monoclonal antibody 44D7 antigen complex review 1160
Mouse ob adenylate cyclase adipocyte membrane 855
mRNA EGF submandibular thyroxine 290
mRNA fumarylacetoacetate hydrolase rat 489

mRNA histone stability polysome myoblast 99
mRNA Physarum ameba plasmodia cloning 1294
mRNA translation specificity heat 504
Mucin intestine lipid antigenicity 223
Muscle C protein phosphorylation cAMP kinase 622
Muscle contraction myosin ATPase structure review 265
Muscle dystrophy thiol protease inhibitor defect 1010
Muscle ectoenzyme inactivation concanavalin A 1272
Muscle smooth membrane aggregation cation 535
Muscular dystrophy cyclic nucleotide organ 1339
Mycobacterium ornithine decarboxylase 1349
Myeloma RNA polymerase B subunit compn 923
Myoblast freeze etch electron microscopy 194
Myoblast hexose transport review 1081
Myoblast polysome histone mRNA stability 99
Myosin ATPase structure muscle contraction review 265
NADH oxidn peroxidase compd I II 323
NADPH cytochrome P450 reductase placenta 184
Nb rat lymphoma culture hormone review 659
Neoplasm cathepsin B inhibition proteinase inhibitor 1218
Neoplasm folate polyglutamate folylpolyglutamate hydrolase methotrexate 363
Neoplastic transformation DNA adeno virus 256
Nephritis Heymann antigen kidney 441
Nerve growth factor sodium channel pheochromocytoma 1153
Nervous system brown adipose thermogenin cold 1125
Neuron cell nucleus lysophospholipid acylation 1
Neuron nucleus arachidonate incorporation 962
Neurospora nuclease immunochem 106
Nitrite reductase intermediate Vibrio 394
Nitrogenase alfalfa Rhizobium symbiosis 556
Nitrosyl deriv nitrite reductase 394
NMR aerobic cell metab detn 869
Nopaline synthase detection fluorog 126
Nuclear matrix protein DNA interaction 474
Nuclease extracellular pollen 891
Nuclease immunochem Neurospora 106
Nucleoside glucose transporter erythrocyte band 4 1170
Nucleosome chromatin structure histone H1 463
Nucleotide cyclic organ muscular dystrophy 1339
Nucleus brain arachidonate incorporation buffer pH 962
Nucleus envelope steroid review 594
Nucleus lysophospholipid acylation neuron 1
Nucleus triiodothyronine receptor antibody liver 377
Ob mouse adenylate cyclase adipocyte membrane 855
Obesity adenylate cyclase adipocyte ob mouse 855
Octopine synthase detection fluorog 126
Oleate incorporation lysophospholipid neuron nucleus 1
Oleate phosphatidate phosphohydrolase lung translocation 1135
Oligosaccharide protein bound enzyme review 163
Ontogeny osteonectin mineralized tissue 356
Opine synthase detection Brassica crown gall 126
Opioid peptide stomach 733
Organ cyclic nucleotide muscular dystrophy 1339
Organ glycogen fetus endocrine system 405
Organ rat ceramidase heterogeneity 400
Ornithine decarboxylase lymphoma prolactin 381
Ornithine decarboxylase Mycobacterium 1349
Osteonectin mineralized tissue ontogeny 356
Ouabainlike factor brain cerebellum 1049
Oxidase cytochrome interaction phospholipid fatty acid 1195
Oxidase cytochrome liposome triorgonotin 647
Oxidase cytochrome reconstitution phosphatidylcholine liposome 91
Panagrellus cuticle collagen monoclonal antibody 743
Parathyroid hormone gene human synthesis cloning 133
Partition phase cell membrane 448
Pea epicotyl plasmalemma purifn 448
PEP carboxylase Anabaena 427
Peptide opioid stomach 733
Peptide sepn HPLC protein hydrolyzate 1226
Perifusion aerobic cell metab detn 869
Permeability membrane enzyme transport A choleplasma 58
Peroxidase compd I II NADH oxidn 323
Peroxidase inhibition sperm sea urchin 1333
Persulfide sulfur lymphoma cell growth 758
pH arachidonate incorporation nucleus brain 962
Phase partition cell membrane 448
Phase transition lipid modification review 44
Phenobarbital liver triglyceride lipase 1147
Phenobarbital modulation preadipocyte differentiation 1141
Phenylhydrazine inhibition peroxidase sperm sea urchin 1333
Pheochromocytoma sodium channel nerve growth factor 1153
Phosphatase acid prostate androgen 583
Phosphatase retinyl monophosphate liver 864
Phosphate activation UDP acetylmuramoylalanylglutamyll=ysine synthetase 297
Phosphatidate phosphohydrolase lung translocation oleate 1135
Phosphatidylcholine formation heart stearate 413
Phosphatidylcholine formation HeLa CDP choline diacyl=glycerol 692
Phosphatidylcholine liposome cytochrome oxidase reconsti=tution 91
Phosphatidylcholine metab platelet thrombin 1256
Phosphatidylethanolamine methyltransferase liver regulation cytosol 565
Phosphatidylglycerol mitochondria CDP diglyceride micro=some 309
Phosphatidylinositol metab platelet thrombin 1256
Phosphlipid micelle cholesterol transport intestine 847
Phosphodiesterase cAMP II muscle polyarginine 930
Phosphodiesterase cGMP binding protein Dictyostelium 528
Phosphodiesterase cyclic nucleotide calmodulin cAMP review 1072
Phosphoenolpyruvate carboxykinase Veillonela 898
Phosphoenolpyruvate carboxylase cyanobacteria 427
Phosphoenolpyruvate carboxylase sorghum 1234
Phosphohydrolase phosphatidate lung translocation oleate 1135
Phosphoinositide metab microsome brain liver 117
Phospholipid fatty acid interaction cytochrome oxidase 1195
Phospholipid mitochondria CDP diglyceride microsome 309
Phospholipid origin transport mitochondria animal review 1115
Phospholipid particle binding plasma apolipoprotein 826 836
Phosphoribosyltransferase anthranilate mechanism Escher=ichia 681
Phosphorylation C protein cAMP kinase muscle 622
Phosphorylation proopiomelanocortin processing pituitary 1262
Photoaffinity labeling ATP diphosphatase catalytic subunit 13
Photoinactivation acetylcholinesterase xanthene dye 515
Photosynthesis denitrification Rhodopseudomonas proton=motive force 328
Physarum mRNA ameba plasmodia cloning 1294
Physarum spherulation protein formation 337
Pineal serotonin acetyltransferase rhythm DNA repair 344
Pituitary proopiomelanocortin posttranslational modification 1262
Pituitary proopiomelanocortin processing proteinase specif=icity 1356
Placenta NADPH cytochrome P450 reductase 184
Plasma apolipoprotein binding phospholipid particle 826 836
Plasmalemma pea epicotyl purifn 448
Plasmodia ameba Physarum mRNA cloning 1294
Platelet aggregation unsatd fatty acid 906
Platelet eicosapentaenoate arachidonate metab thrombin 1256
Pollen extracellular nuclease 891

Polyadenosine diphosphoribose glycohydrolase substrate accessibility 146
Polyadenosine diphosphoribose polymerase domain monoclonal antibody 368
PolyADP ribose glycohydrolase chromatin protein accessibility 146
Polyanion cAMP phosphodiesterase II conformation 930
Polyarginine cAMP phosphodiesterase II muscle 930
Polyglutamate folate formation review 667
Polyglutamate folate neoplasm methotrexate 363
Polyglutamate microtubule assembly microtubule assocd protein 615
Polymerase polyadenosine diphosphoribose domain monoclonal antibody 368
Polymerase RNA B purifn biotinylamanitin 923
Polymerase RNA subunit gene RPO31 Saccharomyces 717
Polymorphonuclear leukocyte lysozyme release lithium 880
Polysaccharide capsular Haemophilus mol structure 707
Polysaccharide O antigen structure Escherichia 21
Polysome histone mRNA stability myoblast 99
Polyspermy prevention fertilization sea urchin peroxidase 1333
Potassium activation UDP acetylmuramoylalanylglutamyllysine synthetase 297
Potassium sodium transport Rhodopseudomonas 946
Potential membrane cytochrome oxidase triorganotin 647
Preadipocyte differentiation phenobarbital modulation 1141
Prolactin lymphoma ornithine decarboxylase 381
Proopiomelanocortin posttranslational modification pituitary 1262
Proopiomelanocortin processing proteinase specificity pituitary 1356
Prostate androgen metab culture 583
Prostate growth stroma epithelium review 608
Prostate rat gene androgen zinc 601
Protease adipocyte membrane binding lipoprotein temp 1378
Protease stomach cod 215
Protease thiol inhibitor defect muscle dystrophy 1010
Protein A sequence ribosome halophile evolution 675
Protein bound oligosaccharide enzyme review 163
Protein C phosphorylation cAMP kinase muscle 622
Protein cGMP binding phosphodiesterase Dictyostelium 528
Protein chromatin accessibility polyADP ribose glycohydrolase 146
Protein crosslinking sulfhydryl group electrophoresis 154
Protein cuticle Panagrellus 743
Protein DNA interaction nuclear matrix 474
Protein Em property wheat correction 264
Protein fatty acyl acceptor heart 1249
Protein formation histone mRNA stability 99
Protein formation mitochondria review 1108
Protein formation Physarum spherulation 337
Protein formation specificity mRNA heat 504
Protein GTP G signal eye 304
Protein heat shock localization Drosophila 816
Protein hydrolyzate peptide HPLC sepn 1226
Protein kinase ACTH adrenal cAMP 1066
Protein microtubule assembly characterization 238
Protein microtubule assocd polyglutamate microtubule assembly 615
Protein stability denaturant detn 993
Protein stress formation heart 418
Protein sulfogalactosylacylalkylglycerol binding spermatogenesis 984
Protein synthesis adenovirus DNA transformation 256
Protein zymogen granule membrane 456
Proteinase chymotrypsin like egg yolk sac 543
Proteinase heterogeneity cod stomach 205
Proteinase inhibitor cathepsin B inhibition neoplasm 1218
Proteinase proopiomelanocortin processing specificity pituitary 1356
Proton malate symport Pseudomonas 1190
Protonation amine acyl CoA synthetase inhibition 962
Protonmotive force Rhodopseudomonas photosynthesis denitrification 328
Proximal tubule glucose transport review 1092
Pseudomonas carboxymethylhydroxymuconate semialdehyde dehydrogenase 1288
Pseudomonas malate transport 1190
Psychosine deriv galactolipid sulfotransferase testis 631
Psychosine mitochondria metab Gaucher Krabbe 485
Pyruvate dehydrogenase acetylatable lipoate acetyltransferase 250
Pyruvate dehydrogenase lipoamide dehydrogenase active site 509
Rat fumarylacetoacetate hydrolase mRNA 489
Rat Nb lymphoma culture hormone review 659
Rat organ ceramidase heterogeneity 400
Rat prostate gene androgen zinc 601
Receptor EGF insulin hepatocyte culture 803
Receptor myoblast surface electron microscopy 194
Receptor triiodothyronine antibody 377
Reductase NADPH cytochrome P450 placenta 184
Reductase nitrite intermediate Vibrio 394
Research biochem 1055
Resorption glucose kidney review 1092
Retinyl monophosphate phosphatase liver 864
Review calmodulin cyclic nucleotide phosphodiesterase cAMP 1072
Review folylpolyglutamate synthetase liver 667
Review glucose transport proximal tubule 1092
Review hexose transport myoblast 1081
Review lipid modification hydrogen bond membrane 50
Review lipid modification phase transition 44
Review lipid structure modification membrane 66
Review lymphoma culture Nb rat hormone 659
Review mitochondria protein formation 1108
Review myosin ATPase structure muscle contraction 265
Review phospholipid origin transport mitochondria animal 1115
Review prostate growth stroma epithelium 608
Review protein bound oligosaccharide enzyme 163
Review sodium calcium exchanger 44D7 antigen 1160
Review steroid nucleus envelope 594
Rhizobium alfalfa symbiosis nitrogenase 556
Rhodopseudomonas protonmotive force photosynthesis denitrification 328
Rhodopseudomonas sodium potassium transport 946
Rhodopsin GTP hydrolysis G signal light 304
Rhythm serotonin acetyltransferase pineal DNA repair 344
Ribosome protein A sequence halophile evolution 675
Rickets kidney mitochondria isocitrate dehydrogenase 1310
RNA polymerase B purifn biotinylamanitin 923
RNA polymerase subunit gene RPO31 Saccharomyces 717
RNase A stability denaturant detn 993
Rod outer segment GTP rhodopsin photosignal 304
Saccharomyces RNA polymerase subunit gene RPO31 717
Salt binding enzyme protein detn 993
Saponin Momordica antilipolytic 766
Sea urchin sperm peroxidase inhibition 1333
Sequence histone H3 gene human 277
Sequence protein A ribosome halophile evolution 675
Serotonin acetylneuraminate assocn correction 77
Serotonin acetyltransferase rhythm pineal DNA repair 344
Shrimp brine tubulin assembly characterization 238
Sialyltranferase rat hepatocyte dexamethasone 79
Single stranded DNA sequence detn 70
Sitosterol transport intestine phospholipid micelle 847
Skin fibroblast dipeptidyl aminopeptidase 772
Smooth muscle membrane aggregation cation 535
Sodium calcium exchanger 44D7 antigen review 1160
Sodium channel nerve growth factor pheochromocytoma 1153
Sodium potassium transport Rhodopseudomonas 946
Sorghum phosphoenolpyruvate carboxylase 1234
Species heterogeneity cytochrome c isoform testis 1211
Sperm acrosin purifn 1020
Sperm peroxidase inhibition sea urchin 1333

Spermatogenesis sulfogalactosylacylalkylglycerol binding protein 984
Spherulation Physarum protein formation 337
Spleen dolichol metab 886
Staining cytoskeleton lectin artifact 1326
Stalk cell differentiation Dictyostelium 85
Stearate heart phosphatidylcholine formation 413
Steroid nucleus envelope review 594
Steryl glycoside Momordica lipid metab inhibition 766
Stomach cod proteinase heterogeneity 205
Stomach opioid peptide 733
Stomach protease cod 215
Stress histone acetylation methylation Drosophila 750
Stress protein formation heart 418
Stroma epithelium prostate growth review 608
Stronglyocentrotus sperm peroxidase inhibition 1333
Submandibular EGF mRNA thyroxine 290
Subunit catalytic ATP diphosphatase photoaffinity labeling 13
Sulfation proopiomelanocortin processing pituitary 1262
Sulfhydryl group detn electrophoresis 154
Sulfogalactosylacylalkylglycerol binding protein spermatogenesis 984
Sulfotransferase galactolipid testis psychosine deriv 631
Sulfur persulfide lymphoma cell growth 758
SV40 virus enhancer gene expression 277
Symport proton malate Pseudomonas 1190
Synthase anthranilate inhibition tryptophan Escherichia 681
Synthase nopaline octopine detection fluorog 126
Synthetase acyl CoA inhibition amine protonation 962
Synthetase folylpolyglutamate liver review 667
Synthetase UDP acetylmuramoylalanylglutamyllysine activation potassium phosphate 297
Tau factor polyglutamate microtubule assembly 615
Temp protease adipocyte membrane binding lipoprotein 1378
Testis cytochrome c isoform species heterogeneity 1211
Testis galactolipid sulfotransferase psychosine deriv 631
Thermogenin brown adipose cold nervous system 1125
Thermolysin domain conformation calcium 953
Thermophilic bacteria ATPase subunit arrangement 229
Thiol protease inhibitor defect muscle dystrophy 1010
Thrombin platelet eicosapentaenoate arachidonate metab 1256
Thromboxane platelet unsatd fatty acid 906
Thymus nuclear matrix protein DNA 474
Thyroxine EGF mRNA submandibular 290
Tin triorgano cytochrome oxidase liposome 647
Tipula iridescent virus DNA 495
Tissue mineralized osteonectin ontogeny 356
Tobacco pollen extracellular nuclease 891
Tooth osteonectin ontogeny 356
Transferrin conformation iron coordination 936
Translation specificity mRNA heat 504
Transport cholesterol intestine phosphlipid micelle 847
Transport enzyme permeability membrane A 58
Transport glucose choline channel erythrocyte 1099
Transport glucose proximal tubule review 1092
Transport hexose myoblast review 1081
Transport malate Pseudomonas 1190
Transport phospholipid mitochondria animal review 1115
Transport sodium potassium Rhodopseudomonas 946
Transporter glucose nucleoside erythrocyte band 4 1170
Triglyceride lipase liver insulin phenobarbital 1147
Triiodothyronine receptor antibody 377
Triorgonotin cytochrome oxidase liposome 647
tRNA glutamate isoacceptor conformation Escherichia 315
Tryptophan inhibition anthranilate phosphoribosyltransferase 681
Tubule kidney metab perifusion NMR 869
Tubule proximal glucose transport review 1092
Tubulin assembly characterization brine shrimp 238
Tyrosine modification beta galactosidase iodination 523
Tyrosinemia fumarylacetoacetate hydrolase mRNA 489
UDP acetylmuramoylalanylglutamyllysine synthetase activation potassium phosphate 297
Veillonela phosphoenolpyruvate carboxykinase 898
Vibrio nitrite reductase intermediate 394
Vimentin liver epithelium origin 788
Virus adeno DNA neoplastic transformation 256
Virus herpes 1 infection mitochondria macromol 1303
Virus measles matrix protein gene cloning 1038
Virus SV40 enhancer gene expression 277
Virus Tipula iridescent DNA 495
Vitamin D deficiency kidney isocitrate dehydrogenase 1310
Von Willebrand factor cDNA human 699
Wheat Em protein property correction 264
Wheat embryo germin compartmentation 1025
Xanthene dye acetylcholinesterase photoinactivation 515
Yeast enolase carboxyl conformation magnesium 970
Yolk sac chymotrypsin like proteinase 543
Zbarsky biog 657
Zinc androgen rat prostate gene 601
Zinc maternal deficiency newborn rat 8
Zymogen granule membrane protein 456
Zymogen proteinase heterogeneity cod stomach 205